

ALMANAC XLIV TRANSITS OF MARS IN CE

The almanac XLIV contains a list of transits of Mars from the 1st millennium CE to the 125th millennium CE.

During the period of 250 000 years, the total number of transits of Mars is 32 972 transits of Mars (4 962 transits of Mars visible from Jupiter, 8 607 transits of Mars visible from Saturn, 7 818 transits of Mars visible from Uranus, 10 702 transits of Mars visible from Neptune, 883 transits of Mars visible from Pluto).

1ST MILLENNIUM CE

This is a list of transits of Mars in the 1st millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Uranus	4-07-28 03:07 J		1722727.38	1722727.63	1722727.93	0.0135	0.0053	
Jupiter	6-04-20 09:50 J		1723358.74	1723358.91	1723359.08	0.0537	0.0397	
Uranus	6-06-29 06:43 J		1723428.55	1723428.78	1723429.02	0.0136	0.0087	
Jupiter	24-04-09 11:45 J		1729922.70	1729922.99	1729923.28	0.0490	0.0102	
Saturn	35-05-25 09:21 J		1733985.59	1733985.89	1733986.19	0.0282	0.0097	
Pluto	41-09-20 12:14 J		1736295.76	1736296.01	1736296.30	0.0077	0.0032	
Jupiter	42-01-23 07:26 J		1736420.56	1736420.81	1736421.06	0.0537	0.0140	
Uranus	45-02-14 22:19 J		1737539.13	1737539.43	1737539.75	0.0143	0.0022	
Saturn	51-05-09 07:26 J		1739813.54	1739813.81	1739814.08	0.0279	0.0024	
Neptune	51-06-06 12:00 J		1739841.76	1739842.00	1739842.28	0.0089	0.0042	
Neptune	53-04-30 10:19 J		1740535.69	1740535.93	1740536.19	0.0089	0.0045	
Uranus	89-03-22 17:16 J		1753645.92	1753646.22	1753646.52	0.0135	0.0001	
Saturn	123-10-20 07:12 J		1766275.48	1766275.80	1766276.12	0.0282	0.0019	
Uranus	127-11-06 22:19 J		1767754.35	1767754.43	1767754.56	0.0144	0.0136	
Uranus	129-10-11 09:21 J		1768458.60	1768458.89	1768459.20	0.0143	0.0041	
Neptune	133-04-25 22:47 J		1769751.14	1769751.45	1769751.77	0.0088	0.0032	
Neptune	135-03-22 20:24 J		1770447.14	1770447.35	1770447.60	0.0088	0.0063	
Saturn	139-10-03 13:26 J		1772102.81	1772103.06	1772103.31	0.0280	0.0105	
Jupiter	142-09-27 12:00 J		1773192.77	1773193.00	1773193.24	0.0490	0.0295	
Jupiter	160-07-13 08:52 J		1779691.67	1779691.87	1779692.09	0.0536	0.0314	
Uranus	171-12-15 08:52 J		1783863.65	1783863.87	1783864.11	0.0135	0.0086	
Uranus	173-11-15 07:55 J		1784564.57	1784564.83	1784565.13	0.0135	0.0051	
Jupiter	178-07-03 14:09 J		1786255.83	1786256.09	1786256.36	0.0490	0.0207	
Jupiter	196-04-17 23:16 J		1792754.26	1792754.47	1792754.70	0.0537	0.0267	
Saturn	212-03-16 07:40 J		1798565.56	1798565.82	1798566.11	0.0281	0.0137	
Uranus	212-07-02 11:16 J		1798673.70	1798673.97	1798674.25	0.0143	0.0072	
Uranus	214-06-06 17:16 J		1799378.01	1799378.22	1799378.44	0.0143	0.0101	

Neptune	215-01-19 23:45 J	1799605.39	1799605.49	1799605.65	0.0089	0.0081
Neptune	216-12-13 20:09 J	1800299.05	1800299.34	1800299.64	0.0089	0.0005
Saturn	228-02-28 11:16 J	1804392.79	1804392.97	1804393.15	0.0280	0.0211
Uranus	256-08-08 22:33 J	1814782.15	1814782.44	1814782.73	0.0135	0.0036
Uranus	258-07-10 23:02 J	1815483.29	1815483.46	1815483.68	0.0136	0.0103
Neptune	296-12-07 17:45 J	1829513.11	1829513.24	1829513.43	0.0088	0.0078
Jupiter	296-12-20 13:40 J	1829525.80	1829526.07	1829526.34	0.0490	0.0198
Uranus	297-02-26 00:14 J	1829593.19	1829593.51	1829593.82	0.0143	0.0010
Neptune	298-11-03 18:28 J	1830208.95	1830209.27	1830209.61	0.0088	0.0019
Saturn	300-08-11 12:43 J	1830855.95	1830856.03	1830856.13	0.0281	0.0269
Jupiter	314-10-07 05:02 J	1836025.47	1836025.71	1836025.95	0.0537	0.0185
Saturn	316-07-24 08:38 J	1836681.83	1836681.86	1836681.91	0.0280	0.0276
Jupiter	332-09-26 00:28 J	1842589.31	1842589.52	1842589.75	0.0490	0.0327
Uranus	339-05-03 17:16 J	1845000.11	1845000.22	1845000.37	0.0135	0.0121
Uranus	341-04-03 11:02 J	1845700.67	1845700.96	1845701.27	0.0135	0.0015
Jupiter	350-07-12 06:43 J	1849087.60	1849087.78	1849087.97	0.0536	0.0371
Saturn	374-11-01 10:47 J	1857965.83	1857965.95	1857966.08	0.0277	0.0244
Uranus	379-11-18 02:24 J	1859808.44	1859808.60	1859808.77	0.0144	0.0122
Neptune	380-07-29 09:07 J	1860062.63	1860062.88	1860063.17	0.0089	0.0034
Uranus	381-10-22 14:52 J	1860512.84	1860513.12	1860513.42	0.0143	0.0053
Neptune	382-06-23 05:16 J	1860756.51	1860756.72	1860756.99	0.0089	0.0052
Uranus	423-12-27 04:19 J	1875918.45	1875918.68	1875918.95	0.0135	0.0072
Uranus	425-11-27 01:26 J	1876619.30	1876619.56	1876619.83	0.0136	0.0065
Jupiter	451-03-16 12:57 J	1885859.74	1885860.04	1885860.33	0.0490	0.0054
Neptune	462-06-17 15:21 J	1889970.84	1889971.14	1889971.49	0.0088	0.0026
Saturn	463-03-28 01:40 J	1890254.39	1890254.57	1890254.77	0.0278	0.0192
Neptune	464-05-13 14:38 J	1890666.93	1890667.11	1890667.33	0.0088	0.0071
Uranus	464-07-13 23:45 J	1890728.21	1890728.49	1890728.80	0.0143	0.0056
Uranus	466-06-18 07:26 J	1891432.65	1891432.81	1891433.01	0.0143	0.0116
Jupiter	468-12-31 03:35 J	1892359.40	1892359.65	1892359.91	0.0537	0.0049

Jupiter	486-12-20 22:19 J	1898923.34	1898923.43	1898923.54	0.0490	0.0461
Uranus	508-08-20 15:35 J	1906836.86	1906837.15	1906837.45	0.0135	0.0022
Uranus	510-07-22 15:35 J	1907538.01	1907538.15	1907538.32	0.0136	0.0116
Pluto	536-05-21 07:55 J	1916972.74	1916972.83	1916972.94	0.0077	0.0073
Neptune	544-03-13 20:52 J	1919826.22	1919826.37	1919826.55	0.0089	0.0073
Neptune	546-02-05 17:31 J	1920519.95	1920520.23	1920520.53	0.0089	0.0013
Uranus	549-03-09 19:40 J	1921648.01	1921648.32	1921648.64	0.0143	0.0010
Saturn	551-08-21 03:35 J	1922542.44	1922542.65	1922542.88	0.0276	0.0164
Jupiter	569-09-03 11:02 J	1929130.81	1929130.96	1929131.11	0.0490	0.0420
Jupiter	587-06-22 11:16 J	1935631.84	1935631.97	1935632.12	0.0537	0.0445
Uranus	591-05-15 11:02 J	1937054.77	1937054.96	1937055.15	0.0135	0.0104
Uranus	593-04-15 03:07 J	1937755.35	1937755.63	1937755.94	0.0135	0.0029
Jupiter	605-06-10 03:50 J	1942194.37	1942194.66	1942194.95	0.0489	0.0114
Jupiter	623-03-28 03:21 J	1948694.39	1948694.64	1948694.88	0.0537	0.0150
Neptune	626-01-29 12:00 J	1949732.81	1949733.00	1949733.23	0.0088	0.0069
Neptune	627-12-26 12:43 J	1950428.73	1950429.03	1950429.37	0.0088	0.0028
Uranus	631-11-29 20:52 J	1951863.16	1951863.37	1951863.62	0.0144	0.0100
Uranus	633-11-03 11:16 J	1952567.72	1952567.97	1952568.25	0.0143	0.0074
Saturn	640-01-14 04:47 J	1954830.47	1954830.70	1954830.94	0.0277	0.0138
Uranus	676-01-07 19:26 J	1967973.05	1967973.31	1967973.60	0.0135	0.0056
Uranus	677-12-08 14:38 J	1968673.89	1968674.11	1968674.38	0.0135	0.0080
Neptune	709-09-21 06:00 J	1980283.49	1980283.75	1980284.05	0.0089	0.0027
Neptune	711-08-16 03:07 J	1980977.42	1980977.63	1980977.86	0.0089	0.0060
Uranus	716-07-25 12:28 J	1982782.71	1982783.02	1982783.32	0.0143	0.0036
Uranus	718-06-29 20:52 J	1983487.28	1983487.37	1983487.49	0.0143	0.0134
Jupiter	723-11-29 08:52 J	1985465.61	1985465.87	1985466.13	0.0489	0.0233
Saturn	728-06-08 14:38 J	1987118.86	1987119.11	1987119.37	0.0276	0.0101
Jupiter	741-09-16 07:40 J	1991966.60	1991966.82	1991967.05	0.0538	0.0254
Jupiter	759-09-04 20:38 J	1998529.13	1998529.36	1998529.60	0.0490	0.0296
Uranus	760-09-01 07:26 J	1998891.51	1998891.81	1998892.11	0.0135	0.0006

Uranus	762-08-03 04:33 J	1999592.62	1999592.69	1999592.79	0.0136	0.0130
Jupiter	777-06-21 08:52 J	2005028.66	2005028.87	2005029.08	0.0538	0.0308
Neptune	791-08-09 09:50 J	2010190.60	2010190.91	2010191.26	0.0088	0.0017
Neptune	793-07-05 09:35 J	2010886.79	2010886.90	2010887.07	0.0088	0.0080
Saturn	800-11-10 15:07 J	2013572.08	2013572.13	2013572.21	0.0285	0.0278
Uranus	801-03-21 00:43 J	2013702.23	2013702.53	2013702.85	0.0143	0.0026
Saturn	816-11-01 23:16 J	2019407.21	2019407.47	2019407.74	0.0276	0.0062
Uranus	843-05-27 03:21 J	2029109.43	2029109.64	2029109.87	0.0135	0.0090
Uranus	845-04-26 17:31 J	2029809.95	2029810.23	2029810.52	0.0135	0.0042
Neptune	873-05-06 19:40 J	2040047.15	2040047.32	2040047.55	0.0089	0.0066
Neptune	875-03-31 14:38 J	2040740.83	2040741.11	2040741.40	0.0089	0.0021
Jupiter	878-02-22 13:12 J	2041799.76	2041800.05	2041800.34	0.0490	0.0073
Uranus	883-12-10 21:50 J	2043917.18	2043917.41	2043917.69	0.0144	0.0087
Uranus	885-11-14 14:24 J	2044621.86	2044622.10	2044622.36	0.0143	0.0086
Saturn	889-04-06 07:12 J	2045860.60	2045860.80	2045861.03	0.0285	0.0213
Jupiter	895-12-11 00:28 J	2048300.27	2048300.52	2048300.77	0.0538	0.0125
Saturn	905-03-29 07:55 J	2051696.56	2051696.83	2051697.10	0.0276	0.0015
Jupiter	913-11-28 23:02 J	2054863.36	2054863.46	2054863.58	0.0489	0.0454
Uranus	928-01-19 13:26 J	2060027.78	2060028.06	2060028.35	0.0135	0.0042
Uranus	929-12-20 06:00 J	2060728.55	2060728.75	2060728.99	0.0136	0.0093
Jupiter	931-09-15 16:19 J	2061363.08	2061363.18	2061363.31	0.0537	0.0478
Neptune	955-03-23 04:47 J	2069952.49	2069952.70	2069952.98	0.0088	0.0062
Neptune	957-02-16 06:57 J	2070648.50	2070648.79	2070649.12	0.0088	0.0037
Uranus	968-08-05 18:28 J	2074836.96	2074837.27	2074837.59	0.0143	0.0022
Saturn	977-08-31 11:45 J	2078149.71	2078149.99	2078150.28	0.0285	0.0124
Saturn	993-08-23 09:07 J	2083985.63	2083985.88	2083986.14	0.0277	0.0084
Jupiter	996-08-11 15:21 J	2085070.07	2085070.14	2085070.22	0.0490	0.0474

2ND MILLENNIUM CE

This is a list of transits of Mars in the 2nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	1010-10-13 13:40 J		2090245.96	2090246.07	2090246.20	0.0135	0.0123	
Uranus	1012-09-12 23:31 J		2090946.18	2090946.48	2090946.78	0.0135	0.0007	
Pluto	1031-01-18 23:16 J		2097648.20	2097648.47	2097648.77	0.0077	0.0023	
Jupiter	1032-05-18 00:43 J		2098133.24	2098133.53	2098133.83	0.0489	0.0055	
Neptune	1038-11-14 03:50 J		2100504.38	2100504.66	2100504.95	0.0089	0.0019	
Neptune	1040-10-07 22:33 J		2101198.28	2101198.44	2101198.66	0.0089	0.0068	
Jupiter	1050-03-05 21:21 J		2104634.14	2104634.39	2104634.65	0.0537	0.0015	
Uranus	1051-04-27 17:02 J		2105052.10	2105052.21	2105052.36	0.0144	0.0131	
Uranus	1053-04-01 16:33 J		2105756.90	2105757.19	2105757.50	0.0143	0.0044	
Saturn	1066-01-26 09:07 J		2110439.56	2110439.88	2110440.20	0.0284	0.0011	
Saturn	1082-01-18 06:14 J		2116275.58	2116275.76	2116275.97	0.0277	0.0188	
Uranus	1095-06-07 21:35 J		2121164.18	2121164.40	2121164.67	0.0135	0.0075	
Uranus	1097-05-08 10:48 J		2121864.70	2121864.95	2121865.24	0.0135	0.0058	
Neptune	1120-09-30 01:40 J		2130410.24	2130410.57	2130410.92	0.0088	0.0009	
Uranus	1135-12-22 18:14 J		2135971.99	2135972.26	2135972.56	0.0144	0.0064	
Uranus	1137-11-26 12:28 J		2136676.83	2136677.02	2136677.25	0.0143	0.0108	
Jupiter	1150-11-04 17:16 J		2141403.03	2141403.22	2141403.41	0.0490	0.0371	
Saturn	1154-06-23 19:11 J		2142730.03	2142730.30	2142730.60	0.0284	0.0132	
Jupiter	1168-08-24 04:04 J		2147905.54	2147905.67	2147905.82	0.0537	0.0450	
Saturn	1170-06-14 09:07 J		2148564.80	2148564.88	2148564.98	0.0277	0.0261	
Uranus	1180-01-31 05:45 J		2152082.46	2152082.74	2152083.04	0.0135	0.0026	
Uranus	1181-12-31 22:04 J		2152783.27	2152783.42	2152783.63	0.0135	0.0108	

Jupiter	1186-08-11 06:43 J	2154466.50	2154466.78	2154467.05	0.0490	0.0172
Pluto	1191-10-18 15:07 J	2156360.80	2156361.13	2156361.48	0.0067	0.0010
Neptune	1202-06-29 15:50 J	2160267.96	2160268.16	2160268.40	0.0089	0.0058
Neptune	1204-05-23 11:16 J	2160961.70	2160961.97	2160962.25	0.0089	0.0028
Jupiter	1204-05-28 22:19 J	2160967.18	2160967.43	2160967.69	0.0537	0.0106
Uranus	1220-08-17 15:07 J	2166891.81	2166892.13	2166892.45	0.0143	0.0002
Saturn	1228-09-22 00:57 J	2169849.41	2169849.54	2169849.70	0.0275	0.0232
Saturn	1242-11-18 05:16 J	2175019.53	2175019.72	2175019.91	0.0284	0.0228
Uranus	1262-10-25 08:24 J	2182300.68	2182300.85	2182301.05	0.0134	0.0105
Uranus	1264-09-24 18:00 J	2183000.96	2183001.25	2183001.55	0.0135	0.0024
Neptune	1284-05-13 18:14 J	2190172.02	2190172.26	2190172.56	0.0088	0.0055
Neptune	1286-04-09 20:38 J	2190868.10	2190868.36	2190868.69	0.0088	0.0044
Uranus	1303-05-09 04:48 J	2197106.53	2197106.70	2197106.94	0.0144	0.0110
Jupiter	1305-01-28 05:02 J	2197736.45	2197736.71	2197736.97	0.0490	0.0243
Uranus	1305-04-13 07:11 J	2197811.52	2197811.80	2197812.09	0.0143	0.0064
Saturn	1317-02-16 03:35 J	2202138.43	2202138.65	2202138.87	0.0275	0.0159
Jupiter	1322-11-17 15:50 J	2204238.96	2204239.16	2204239.35	0.0537	0.0337
Jupiter	1340-11-03 17:45 J	2210800.01	2210800.24	2210800.49	0.0489	0.0292
Uranus	1347-06-19 17:02 J	2213218.95	2213219.21	2213219.49	0.0134	0.0058
Uranus	1349-05-20 04:33 J	2213919.43	2213919.69	2213919.94	0.0135	0.0073
Jupiter	1358-08-23 05:16 J	2217301.50	2217301.72	2217301.94	0.0538	0.0266
Neptune	1368-01-06 21:35 J	2220725.12	2220725.40	2220725.69	0.0089	0.0013
Neptune	1369-11-30 16:04 J	2221419.03	2221419.17	2221419.36	0.0089	0.0073
Uranus	1388-01-03 02:09 J	2228026.30	2228026.59	2228026.91	0.0144	0.0046
Uranus	1389-12-07 23:45 J	2228731.35	2228731.49	2228731.65	0.0143	0.0125
Saturn	1405-07-12 13:26 J	2234426.82	2234427.06	2234427.31	0.0274	0.0118
Uranus	1432-02-12 04:04 J	2244137.37	2244137.67	2244137.97	0.0135	0.0009
Uranus	1434-01-12 17:02 J	2244838.10	2244838.21	2244838.36	0.0135	0.0123
Neptune	1449-11-21 12:28 J	2250629.68	2250630.02	2250630.36	0.0088	0.0002
Jupiter	1459-04-24 10:48 J	2254070.66	2254070.95	2254071.24	0.0489	0.0085

Uranus	1472-08-28 23:02 J	2258946.15	2258946.46	2258946.79	0.0143	0.0018
Jupiter	1477-02-11 08:24 J	2260573.60	2260573.85	2260574.09	0.0538	0.0153
Saturn	1493-12-05 18:57 J	2266715.04	2266715.29	2266715.56	0.0275	0.0082
Jupiter	1495-01-29 03:21 J	2267134.56	2267134.64	2267134.74	0.0489	0.0465
Jupiter	1512-11-16 09:35 J	2273635.75	2273635.90	2273636.06	0.0538	0.0426
Uranus	1514-11-06 07:40 J	2274355.63	2274355.82	2274356.07	0.0134	0.0090
Uranus	1516-10-06 14:38 J	2275055.83	2275056.11	2275056.40	0.0135	0.0039
Neptune	1531-08-22 09:50 J	2280488.69	2280488.91	2280489.16	0.0089	0.0053
Neptune	1533-07-16 03:07 J	2281182.37	2281182.63	2281182.91	0.0089	0.0033
Uranus	1555-05-20 19:55 J	2289161.08	2289161.33	2289161.58	0.0144	0.0090
Uranus	1557-04-24 23:45 J	2289866.25	2289866.49	2289866.77	0.0143	0.0083
Jupiter	1577-10-12 09:21 J	2297341.78	2297341.89	2297342.01	0.0489	0.0450
Saturn	1582-05-01 01:55 J	2299003.32	2299003.58	2299003.85	0.0274	0.0051
Uranus	1599-07-11 18:14 G	2305273.99	2305274.26	2305274.55	0.0135	0.0041
Uranus	1601-06-11 04:04 G	2305974.46	2305974.67	2305974.90	0.0135	0.0089
Neptune	1613-07-15 00:00 G	2310391.24	2310391.50	2310391.80	0.0088	0.0049
Jupiter	1613-07-29 03:07 G	2310405.35	2310405.63	2310405.93	0.0489	0.0104
Neptune	1615-06-11 03:35 G	2311087.40	2311087.65	2311087.96	0.0088	0.0049
Jupiter	1631-05-18 14:52 G	2316907.86	2316908.12	2316908.37	0.0538	0.0013
Uranus	1640-01-25 01:40 G	2320081.26	2320081.57	2320081.90	0.0144	0.0023
Saturn	1670-10-04 04:04 G	2331291.41	2331291.67	2331291.94	0.0274	0.0024
Uranus	1682-04-05 00:57 G	2335492.43	2335492.54	2335492.71	0.0134	0.0118
Uranus	1684-03-05 04:19 G	2336192.39	2336192.68	2336192.98	0.0135	0.0008
Neptune	1697-03-10 12:43 G	2340945.75	2340946.03	2340946.33	0.0089	0.0008
Neptune	1699-02-02 05:45 G	2341639.63	2341639.74	2341639.92	0.0089	0.0079
Uranus	1722-10-16 18:14 G	2350296.15	2350296.26	2350296.42	0.0144	0.0130
Uranus	1724-09-21 05:45 G	2351001.44	2351001.74	2351002.05	0.0144	0.0045
Jupiter	1732-01-17 20:38 G	2353676.12	2353676.36	2353676.61	0.0489	0.0269
Jupiter	1749-11-07 16:19 G	2360180.02	2360180.18	2360180.34	0.0538	0.0410
Saturn	1759-03-01 01:55 G	2363580.32	2363580.58	2363580.85	0.0274	0.0034

Uranus	1766-11-29 11:16 G	2366410.73	2366410.97	2366411.24	0.0134	0.0069
Jupiter	1767-10-24 15:07 G	2366739.90	2366740.13	2366740.38	0.0489	0.0290
Uranus	1768-10-29 17:02 G	2367110.96	2367111.21	2367111.50	0.0135	0.0058
Pluto	1774-01-06 13:40 G	2369005.78	2369006.07	2369006.37	0.0078	0.0010
Neptune	1779-01-23 15:07 G	2370848.79	2370849.13	2370849.48	0.0088	0.0002
Jupiter	1785-08-13 06:14 G	2373242.53	2373242.76	2373243.00	0.0538	0.0204
Uranus	1807-06-13 22:48 G	2381216.16	2381216.45	2381216.74	0.0144	0.0062
Uranus	1809-05-19 03:50 G	2381921.48	2381921.66	2381921.89	0.0143	0.0110
Saturn	1831-07-25 15:07 G	2390024.02	2390024.13	2390024.26	0.0287	0.0265
Saturn	1847-07-26 18:43 G	2395869.03	2395869.28	2395869.54	0.0274	0.0086
Uranus	1851-07-25 21:50 G	2397329.13	2397329.41	2397329.71	0.0134	0.0021
Uranus	1853-06-25 05:16 G	2398029.54	2398029.72	2398029.90	0.0135	0.0106
Neptune	1860-10-25 20:24 G	2400709.14	2400709.35	2400709.62	0.0089	0.0050
Neptune	1862-09-19 15:07 G	2401402.88	2401403.13	2401403.41	0.0089	0.0037
Jupiter	1886-04-13 19:11 G	2410010.02	2410010.30	2410010.60	0.0489	0.0112
Uranus	1892-02-08 00:00 G	2412136.18	2412136.50	2412136.82	0.0144	0.0002
Jupiter	1904-02-03 20:09 G	2416514.12	2416514.34	2416514.57	0.0538	0.0250
Saturn	1919-12-21 01:26 G	2422313.30	2422313.56	2422313.82	0.0287	0.0168
Jupiter	1922-01-19 10:48 G	2423073.84	2423073.95	2423074.08	0.0489	0.0444
Uranus	1934-04-20 09:35 G	2427547.71	2427547.90	2427548.12	0.0134	0.0096
Pluto	1934-10-05 08:24 G	2427715.61	2427715.85	2427716.15	0.0066	0.0041
Saturn	1935-12-22 10:48 G	2428158.76	2428158.95	2428159.16	0.0275	0.0181
Uranus	1936-03-20 10:33 G	2428247.66	2428247.94	2428248.23	0.0135	0.0028
Jupiter	1939-11-08 11:45 G	2429575.80	2429575.99	2429576.20	0.0538	0.0319
Neptune	1942-09-07 23:02 G	2430610.19	2430610.46	2430610.77	0.0088	0.0047
Neptune	1944-08-04 03:21 G	2431306.39	2431306.64	2431306.95	0.0088	0.0052
Uranus	1974-10-30 10:33 G	2442350.75	2442350.94	2442351.18	0.0144	0.0108
Uranus	1976-10-04 23:45 G	2443056.21	2443056.49	2443056.78	0.0144	0.0066

3RD MILLENNIUM CE

This is a list of transits of Mars in the 3rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	2008-05-17 05:16	G	2454603.41	2454603.72	2454604.05	0.0287	0.0034	
Uranus	2018-12-13 20:09	G	2458466.08	2458466.34	2458466.62	0.0134	0.0050	
Uranus	2020-11-12 23:16	G	2459166.23	2459166.47	2459166.72	0.0135	0.0076	
Saturn	2024-05-17 14:09	G	2460448.00	2460448.09	2460448.20	0.0275	0.0254	
Neptune	2026-05-05 21:35	G	2461166.12	2461166.40	2461166.70	0.0089	0.0006	
Neptune	2028-03-29 14:52	G	2461860.03	2461860.12	2461860.28	0.0089	0.0081	
Jupiter	2040-07-08 02:38	G	2466343.32	2466343.61	2466343.91	0.0489	0.0017	
Jupiter	2058-04-28 20:24	G	2472847.11	2472847.35	2472847.59	0.0538	0.0160	
Uranus	2059-06-26 16:48	G	2473270.91	2473271.20	2473271.53	0.0144	0.0043	
Uranus	2061-06-01 02:09	G	2473976.46	2473976.59	2473976.73	0.0144	0.0129	
Saturn	2082-08-26 16:33	G	2481733.04	2481733.19	2481733.37	0.0273	0.0218	
Jupiter	2094-02-01 03:50	G	2485909.54	2485909.66	2485909.81	0.0538	0.0449	
Saturn	2096-10-11 23:02	G	2486893.16	2486893.46	2486893.78	0.0286	0.0077	
Uranus	2101-09-08 13:11	G	2488684.95	2488685.05	2488685.18	0.0134	0.0122	
Uranus	2103-08-09 09:50	G	2489384.62	2489384.91	2489385.21	0.0134	0.0001	
Uranus	2105-07-09 15:50	G	2490085.07	2490085.16	2490085.27	0.0135	0.0126	
Neptune	2108-03-18 11:45	G	2491067.66	2491067.99	2491068.34	0.0088	0.0004	
Uranus	2144-02-22 03:21	G	2504191.33	2504191.64	2504191.97	0.0144	0.0026	
Jupiter	2158-12-26 14:52	G	2509612.99	2509613.12	2509613.27	0.0490	0.0429	
Saturn	2171-01-22 03:07	G	2514022.40	2514022.63	2514022.87	0.0274	0.0131	

Pluto	2183-01-14 03:35 G	2518397.33	2518397.65	2518398.00	0.0066	0.0011
Saturn	2185-03-10 04:19 G	2519183.48	2519183.68	2519183.90	0.0286	0.0214
Uranus	2186-05-03 23:16 G	2519603.25	2519603.47	2519603.73	0.0134	0.0075
Uranus	2188-04-02 22:48 G	2520303.18	2520303.45	2520303.73	0.0135	0.0049
Neptune	2189-12-20 04:19 G	2520929.46	2520929.68	2520929.94	0.0089	0.0049
Neptune	2191-11-13 20:38 G	2521623.10	2521623.36	2521623.63	0.0089	0.0037
Jupiter	2194-10-02 06:28 G	2522676.49	2522676.77	2522677.06	0.0489	0.0126
Jupiter	2212-07-24 19:40 G	2529181.07	2529181.32	2529181.57	0.0538	0.0016
Uranus	2226-11-13 20:38 G	2534406.11	2534406.36	2534406.65	0.0145	0.0080
Uranus	2228-10-19 12:28 G	2535111.79	2535112.02	2535112.28	0.0144	0.0094
Saturn	2259-06-18 19:55 G	2546311.07	2546311.33	2546311.59	0.0273	0.0079
Uranus	2270-12-28 12:14 G	2550521.73	2550522.01	2550522.31	0.0134	0.0025
Neptune	2271-10-31 16:33 G	2550828.93	2550829.19	2550829.51	0.0088	0.0047
Uranus	2272-11-27 15:35 G	2551221.98	2551222.15	2551222.37	0.0135	0.0100
Saturn	2273-08-04 13:26 G	2551471.96	2551472.06	2551472.17	0.0286	0.0270
Neptune	2273-09-26 22:04 G	2551525.17	2551525.42	2551525.72	0.0088	0.0052
Uranus	2311-07-12 09:21 G	2565326.57	2565326.89	2565327.21	0.0144	0.0009
Jupiter	2313-03-23 10:48 G	2565946.71	2565946.95	2565947.19	0.0489	0.0285
Jupiter	2331-01-14 20:38 G	2572453.24	2572453.36	2572453.50	0.0538	0.0455
Saturn	2347-11-13 08:52 G	2578599.61	2578599.87	2578600.14	0.0273	0.0031
Jupiter	2348-12-28 06:43 G	2579010.55	2579010.78	2579011.03	0.0489	0.0285
Uranus	2353-09-23 06:00 G	2580740.57	2580740.75	2580740.97	0.0134	0.0097
Neptune	2355-07-01 03:07 G	2581386.35	2581386.63	2581386.92	0.0089	0.0007
Uranus	2355-08-24 02:38 G	2581440.33	2581440.61	2581440.91	0.0134	0.0025
Neptune	2357-05-24 19:26 G	2582080.18	2582080.31	2582080.45	0.0089	0.0079
Jupiter	2366-10-19 17:16 G	2585514.98	2585515.22	2585515.47	0.0539	0.0128
Uranus	2394-04-01 16:19 G	2595541.00	2595541.18	2595541.38	0.0145	0.0118
Uranus	2396-03-07 15:07 G	2596246.84	2596247.13	2596247.44	0.0144	0.0057
Pluto	2431-04-25 14:38 G	2609078.90	2609079.11	2609079.41	0.0066	0.0045
Saturn	2436-04-07 18:28 G	2610888.00	2610888.27	2610888.54	0.0272	0.0005

Neptune	2437-05-11 03:35 G	2611286.31	2611286.65	2611287.00	0.0088	0.0003
Uranus	2438-05-18 19:55 G	2611659.07	2611659.33	2611659.62	0.0134	0.0048
Uranus	2440-04-17 18:14 G	2612359.04	2612359.26	2612359.53	0.0134	0.0075
Jupiter	2467-06-17 23:16 G	2622281.17	2622281.47	2622281.76	0.0489	0.0100
Uranus	2478-11-27 02:52 G	2626461.31	2626461.62	2626461.93	0.0145	0.0050
Uranus	2480-11-01 20:52 G	2627167.21	2627167.37	2627167.55	0.0144	0.0122
Jupiter	2485-04-10 01:11 G	2628787.35	2628787.55	2628787.77	0.0538	0.0295
Jupiter	2503-03-25 22:19 G	2635345.40	2635345.43	2635345.50	0.0488	0.0481
Neptune	2519-02-14 05:45 G	2641149.53	2641149.74	2641150.00	0.0089	0.0052
Neptune	2521-01-07 23:02 G	2641843.19	2641843.46	2641843.73	0.0089	0.0034
Jupiter	2521-01-14 14:09 G	2641849.90	2641850.09	2641850.29	0.0538	0.0337
Uranus	2521-02-11 16:48 G	2641878.09	2641878.20	2641878.36	0.0133	0.0119
Uranus	2523-01-12 10:04 G	2642577.62	2642577.92	2642578.21	0.0134	0.0002
Saturn	2524-09-01 21:07 G	2643176.12	2643176.38	2643176.65	0.0272	0.0032
Uranus	2524-12-12 09:50 G	2643277.81	2643277.91	2643278.04	0.0135	0.0124
Uranus	2563-07-25 09:21 G	2657381.57	2657381.89	2657382.21	0.0145	0.0016
Jupiter	2585-12-06 15:50 G	2665552.13	2665552.16	2665552.22	0.0489	0.0484
Neptune	2600-12-24 07:11 G	2671047.53	2671047.80	2671048.11	0.0088	0.0048
Neptune	2602-11-20 13:26 G	2671743.80	2671744.06	2671744.36	0.0088	0.0051
Uranus	2605-10-08 07:40 G	2672796.59	2672796.82	2672797.08	0.0134	0.0071
Uranus	2607-09-08 01:26 G	2673496.30	2673496.56	2673496.85	0.0134	0.0050
Saturn	2613-01-27 13:26 G	2675464.80	2675465.06	2675465.32	0.0272	0.0078
Jupiter	2621-09-13 18:14 G	2678615.97	2678616.26	2678616.56	0.0488	0.0106
Jupiter	2639-07-07 22:33 G	2685122.19	2685122.44	2685122.69	0.0538	0.0086
Uranus	2646-04-15 19:55 G	2687596.10	2687596.33	2687596.60	0.0145	0.0092
Uranus	2648-03-21 21:07 G	2688302.13	2688302.38	2688302.66	0.0144	0.0083
Jupiter	2675-04-11 18:43 G	2698184.20	2698184.28	2698184.36	0.0539	0.0511
Pluto	2679-08-04 19:55 G	2699760.22	2699760.33	2699760.48	0.0067	0.0061
Neptune	2684-08-24 02:52 G	2701606.34	2701606.62	2701606.92	0.0089	0.0012
Neptune	2686-07-18 19:11 G	2702300.16	2702300.30	2702300.47	0.0089	0.0075

Uranus	2690-06-02 20:38 G	2703715.08	2703715.36	2703715.66	0.0134	0.0023
Uranus	2692-05-02 17:31 G	2704415.04	2704415.23	2704415.44	0.0134	0.0099
Saturn	2701-06-23 22:48 G	2707753.22	2707753.45	2707753.70	0.0272	0.0117
Uranus	2730-12-12 11:16 G	2718516.65	2718516.97	2718517.30	0.0145	0.0022
Jupiter	2740-03-04 02:24 G	2721886.37	2721886.60	2721886.85	0.0489	0.0296
Jupiter	2757-12-27 23:02 G	2728394.42	2728394.46	2728394.50	0.0538	0.0529
Neptune	2766-07-04 16:48 G	2731504.86	2731505.20	2731505.55	0.0088	0.0001
Uranus	2773-02-26 19:40 G	2733934.13	2733934.32	2733934.55	0.0133	0.0092
Uranus	2775-01-27 11:02 G	2734633.68	2734633.96	2734634.26	0.0134	0.0027
Jupiter	2775-12-10 00:28 G	2734950.28	2734950.52	2734950.77	0.0489	0.0287
Saturn	2789-11-18 07:26 G	2740042.64	2740042.81	2740043.01	0.0273	0.0196
Jupiter	2793-10-01 13:26 G	2741455.81	2741456.06	2741456.31	0.0539	0.0049
Uranus	2813-09-01 20:38 G	2748731.23	2748731.36	2748731.54	0.0145	0.0127
Uranus	2815-08-09 04:04 G	2749437.37	2749437.67	2749437.98	0.0145	0.0049
Saturn	2848-02-27 11:31 G	2761327.98	2761327.98	2761328.00	0.0272	0.0271
Neptune	2848-04-09 06:57 G	2761369.59	2761369.79	2761370.03	0.0089	0.0057
Neptune	2850-03-03 22:04 G	2762063.16	2762063.42	2762063.71	0.0089	0.0030
Uranus	2857-10-22 09:07 G	2764852.61	2764852.88	2764853.16	0.0134	0.0042
Uranus	2859-09-22 03:07 G	2765552.40	2765552.63	2765552.88	0.0134	0.0076
Saturn	2862-04-03 11:45 G	2766476.79	2766476.99	2766477.23	0.0289	0.0213
Saturn	2878-04-14 06:14 G	2772331.69	2772331.76	2772331.86	0.0273	0.0258
Jupiter	2894-05-28 17:16 G	2778219.93	2778220.22	2778220.51	0.0489	0.0149
Uranus	2898-04-29 09:50 G	2779651.62	2779651.91	2779652.22	0.0145	0.0058
Uranus	2900-04-05 11:31 G	2780357.81	2780357.98	2780358.20	0.0144	0.0116
Jupiter	2912-03-23 03:21 G	2784727.49	2784727.64	2784727.79	0.0538	0.0428
Pluto	2927-11-13 18:00 G	2790441.17	2790441.25	2790441.40	0.0066	0.0063
Neptune	2930-02-15 18:57 G	2791266.02	2791266.29	2791266.59	0.0088	0.0051
Jupiter	2930-03-05 07:11 G	2791283.64	2791283.80	2791283.96	0.0488	0.0414
Neptune	2932-01-13 02:09 G	2791962.32	2791962.59	2791962.89	0.0088	0.0049
Saturn	2936-07-24 12:43 G	2793616.86	2793617.03	2793617.21	0.0271	0.0205

Uranus	2940-07-18 09:35 G	2795071.76	2795071.90	2795072.09	0.0133	0.0110
Uranus	2942-06-17 22:33 G	2795771.15	2795771.44	2795771.73	0.0134	0.0006
Uranus	2944-05-17 18:00 G	2796471.17	2796471.25	2796471.37	0.0134	0.0126
Jupiter	2947-12-27 07:26 G	2797789.58	2797789.81	2797790.05	0.0538	0.0189
Saturn	2950-08-30 06:28 G	2798766.48	2798766.77	2798767.08	0.0288	0.0100
Uranus	2982-12-25 23:16 G	2810572.14	2810572.47	2810572.80	0.0145	0.0011

4TH MILLENNIUM CE

This is a list of transits of Mars in the 4th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	3013-10-19 03:07 G		2821826.34	2821826.63	2821826.91	0.0089	0.0016	
Neptune	3015-09-12 18:00 G		2822520.10	2822520.25	2822520.46	0.0089	0.0070	
Saturn	3024-12-20 03:35 G		2825906.41	2825906.65	2825906.91	0.0272	0.0108	
Uranus	3025-03-13 21:50 G		2825990.17	2825990.41	2825990.68	0.0133	0.0063	
Uranus	3027-02-11 12:14 G		2826689.75	2826690.01	2826690.29	0.0134	0.0054	
Saturn	3039-01-26 20:09 G		2831057.03	2831057.34	2831057.67	0.0288	0.0054	
Jupiter	3048-08-22 18:43 G		2834552.98	2834553.28	2834553.58	0.0489	0.0037	
Uranus	3065-09-15 19:26 G		2840786.07	2840786.31	2840786.55	0.0145	0.0100	
Jupiter	3066-06-17 22:19 G		2841061.22	2841061.43	2841061.64	0.0538	0.0292	
Uranus	3067-08-23 03:07 G		2841492.36	2841492.63	2841492.92	0.0145	0.0075	
Neptune	3095-08-27 04:48 G		2851723.36	2851723.70	2851724.05	0.0088	0.0001	
Jupiter	3102-03-23 14:09 G		2854122.88	2854123.09	2854123.30	0.0539	0.0294	
Uranus	3107-12-09 00:28 G		2856209.47	2856209.52	2856209.58	0.0133	0.0130	

Uranus	3109-11-07 10:33 G	2856908.66	2856908.94	2856909.23	0.0134	0.0017
Uranus	3111-10-08 02:09 G	2857608.42	2857608.59	2857608.80	0.0134	0.0102
Saturn	3113-05-17 03:21 G	2858195.37	2858195.64	2858195.91	0.0271	0.0044
Saturn	3127-06-23 21:21 G	2863346.11	2863346.39	2863346.68	0.0288	0.0138
Uranus	3150-05-14 08:24 G	2871706.53	2871706.85	2871707.17	0.0145	0.0032
Uranus	3152-04-19 11:45 G	2872412.94	2872412.99	2872413.10	0.0144	0.0140
Jupiter	3167-02-10 10:04 G	2877822.89	2877822.92	2877822.98	0.0489	0.0483
Pluto	3176-02-22 12:28 G	2881121.86	2881122.02	2881122.22	0.0066	0.0056
Neptune	3177-06-04 07:26 G	2881589.61	2881589.81	2881590.04	0.0089	0.0060
Neptune	3179-04-28 22:48 G	2882283.19	2882283.45	2882283.75	0.0089	0.0027
Uranus	3192-08-02 12:00 G	2887127.78	2887128.00	2887128.22	0.0133	0.0085
Uranus	3194-07-02 22:48 G	2887827.17	2887827.45	2887827.74	0.0134	0.0031
Saturn	3201-10-11 02:09 G	2890484.32	2890484.59	2890484.86	0.0272	0.0023
Jupiter	3202-11-17 08:09 G	2890886.55	2890886.84	2890887.14	0.0489	0.0106
Saturn	3215-11-18 08:24 G	2895635.70	2895635.85	2895636.04	0.0288	0.0244
Jupiter	3220-09-11 12:00 G	2897394.76	2897395.00	2897395.24	0.0538	0.0170
Uranus	3233-02-01 05:16 G	2901920.66	2901920.72	2901920.80	0.0145	0.0142
Uranus	3235-01-08 19:11 G	2902626.99	2902627.30	2902627.63	0.0145	0.0034
Jupiter	3256-06-16 17:31 G	2910457.10	2910457.23	2910457.36	0.0538	0.0460
Neptune	3259-04-10 07:26 G	2911484.53	2911484.81	2911485.09	0.0088	0.0052
Neptune	3261-03-06 15:07 G	2912180.85	2912181.13	2912181.42	0.0088	0.0048
Uranus	3277-03-27 21:21 G	2918046.13	2918046.39	2918046.68	0.0133	0.0039
Uranus	3279-02-25 10:33 G	2918745.72	2918745.94	2918746.19	0.0134	0.0079
Saturn	3290-03-06 16:04 G	2922772.91	2922773.17	2922773.43	0.0271	0.0066
Saturn	3304-04-12 17:02 G	2927923.08	2927923.21	2927923.36	0.0289	0.0259
Uranus	3317-09-30 00:28 G	2932841.26	2932841.52	2932841.83	0.0145	0.0071
Uranus	3319-09-06 10:19 G	2933547.72	2933547.93	2933548.18	0.0145	0.0103
Jupiter	3321-05-07 12:57 G	2934156.82	2934157.04	2934157.28	0.0490	0.0311
Neptune	3342-12-13 03:50 G	2942046.39	2942046.66	2942046.95	0.0089	0.0018
Neptune	3344-11-05 18:57 G	2942740.14	2942740.29	2942740.51	0.0089	0.0069

Jupiter	3357-02-11 16:48 G	2947220.96	2947221.20	2947221.44	0.0488	0.0295
Uranus	3359-12-22 23:16 G	2948265.30	2948265.47	2948265.66	0.0133	0.0105
Uranus	3361-11-21 08:24 G	2948964.57	2948964.85	2948965.15	0.0134	0.0010
Uranus	3363-10-22 01:11 G	2949664.48	2949664.55	2949664.66	0.0134	0.0128
Jupiter	3374-12-08 02:38 G	2953729.36	2953729.61	2953729.87	0.0538	0.0031
Saturn	3378-07-31 21:07 G	2955061.14	2955061.38	2955061.64	0.0271	0.0099
Uranus	3402-05-28 14:24 G	2963761.77	2963762.10	2963762.43	0.0145	0.0002
Pluto	3424-06-02 01:26 G	2971802.32	2971802.56	2971802.88	0.0066	0.0039
Neptune	3424-10-19 18:57 G	2971941.94	2971942.29	2971942.63	0.0088	0.0001
Uranus	3444-08-17 07:26 G	2979183.56	2979183.81	2979184.08	0.0133	0.0059
Uranus	3446-07-17 18:57 G	2979883.04	2979883.29	2979883.57	0.0134	0.0057
Saturn	3466-12-26 09:21 G	2987349.67	2987349.89	2987350.13	0.0271	0.0138
Jupiter	3475-08-03 08:38 G	2990491.56	2990491.86	2990492.16	0.0489	0.0095
Uranus	3485-02-15 12:00 G	2993975.79	2993976.00	2993976.22	0.0145	0.0109
Uranus	3487-01-23 03:21 G	2994682.35	2994682.64	2994682.94	0.0145	0.0066
Jupiter	3493-05-30 15:07 G	2997001.97	2997002.13	2997002.31	0.0538	0.0393
Neptune	3506-07-30 13:26 G	3001809.87	3001810.06	3001810.30	0.0089	0.0061
Neptune	3508-06-23 03:21 G	3002503.37	3002503.64	3002503.93	0.0089	0.0025
Uranus	3527-05-14 09:50 G	3009402.81	3009402.91	3009403.01	0.0133	0.0125
Jupiter	3529-03-05 09:21 G	3010063.66	3010063.89	3010064.12	0.0539	0.0214
Uranus	3529-04-12 16:48 G	3010101.92	3010102.20	3010102.49	0.0133	0.0012
Uranus	3531-03-13 06:28 G	3010801.60	3010801.77	3010801.96	0.0134	0.0104
Saturn	3555-05-22 12:43 G	3019637.83	3019638.03	3019638.26	0.0271	0.0165
Uranus	3569-10-13 20:38 G	3024896.06	3024896.36	3024896.69	0.0145	0.0043
Uranus	3571-09-20 07:11 G	3025602.69	3025602.80	3025602.97	0.0144	0.0130
Neptune	3588-06-02 22:19 G	3031703.16	3031703.43	3031703.72	0.0088	0.0051
Neptune	3590-04-30 06:28 G	3032399.52	3032399.77	3032400.09	0.0088	0.0050
Uranus	3612-01-06 16:04 G	3040320.95	3040321.17	3040321.41	0.0133	0.0081
Uranus	3613-12-06 01:55 G	3041020.31	3041020.58	3041020.87	0.0134	0.0034
Jupiter	3629-10-28 21:50 G	3046826.12	3046826.41	3046826.71	0.0489	0.0110

Saturn	3643-10-16 13:55 G	3051926.95	3051927.08	3051927.23	0.0271	0.0231
Jupiter	3647-08-25 12:57 G	3053335.81	3053336.04	3053336.26	0.0538	0.0238
Uranus	3654-06-10 05:31 G	3055816.41	3055816.73	3055817.07	0.0145	0.0023
Neptune	3672-02-06 13:26 G	3062266.78	3062267.06	3062267.34	0.0089	0.0016
Pluto	3672-09-09 15:21 G	3062482.84	3062483.14	3062483.48	0.0066	0.0021
Neptune	3673-12-31 02:52 G	3062960.47	3062960.62	3062960.83	0.0089	0.0070
Jupiter	3683-05-30 18:00 G	3066398.09	3066398.25	3066398.42	0.0539	0.0400
Uranus	3696-08-31 00:28 G	3071239.26	3071239.52	3071239.81	0.0133	0.0037
Uranus	3698-07-31 10:19 G	3071938.72	3071938.93	3071939.18	0.0134	0.0079
Saturn	3702-01-25 15:35 G	3073212.04	3073212.15	3073212.30	0.0270	0.0237
Uranus	3737-02-28 19:40 G	3086030.08	3086030.32	3086030.61	0.0145	0.0088
Uranus	3739-02-05 12:14 G	3086736.77	3086737.01	3086737.30	0.0145	0.0086
Jupiter	3748-04-17 18:14 G	3090096.04	3090096.26	3090096.49	0.0490	0.0328
Neptune	3753-12-12 13:40 G	3092160.73	3092161.07	3092161.42	0.0088	0.0002
Uranus	3779-05-28 00:14 G	3101458.35	3101458.51	3101458.71	0.0133	0.0104
Uranus	3781-04-26 06:43 G	3102157.49	3102157.78	3102158.07	0.0134	0.0008
Uranus	3783-03-26 18:28 G	3102857.19	3102857.27	3102857.41	0.0134	0.0124
Jupiter	3784-01-23 14:24 G	3103159.86	3103160.10	3103160.36	0.0489	0.0265
Saturn	3790-06-21 11:31 G	3105500.78	3105500.98	3105501.19	0.0270	0.0179
Jupiter	3801-11-20 12:14 G	3109669.76	3109670.01	3109670.26	0.0538	0.0079
Saturn	3804-07-17 09:21 G	3110639.83	3110639.89	3110639.99	0.0290	0.0281
Uranus	3821-10-27 10:19 G	3116950.60	3116950.93	3116951.26	0.0145	0.0020
Neptune	3835-09-24 00:28 G	3122030.32	3122030.52	3122030.76	0.0089	0.0057
Neptune	3837-08-17 15:21 G	3122723.88	3122724.14	3122724.42	0.0089	0.0028
Jupiter	3837-08-25 04:19 G	3122731.63	3122731.68	3122731.74	0.0539	0.0524
Uranus	3864-01-21 05:02 G	3132376.47	3132376.71	3132376.98	0.0133	0.0060
Uranus	3865-12-20 13:11 G	3133075.79	3133076.05	3133076.32	0.0134	0.0054
Saturn	3878-11-17 02:09 G	3137790.34	3137790.59	3137790.85	0.0271	0.0084
Saturn	3892-12-12 18:43 G	3142930.01	3142930.28	3142930.57	0.0289	0.0135
Jupiter	3902-07-13 23:16 G	3146429.20	3146429.47	3146429.75	0.0489	0.0203

Uranus	3904-07-18 01:11 G	3147164.42	3147164.55	3147164.74	0.0145	0.0127
Uranus	3906-06-24 22:19 G	3147871.13	3147871.43	3147871.75	0.0145	0.0047
Neptune	3917-07-27 19:55 G	3151922.06	3151922.33	3151922.65	0.0088	0.0047
Neptune	3919-06-24 05:16 G	3152618.48	3152618.72	3152619.02	0.0088	0.0055
Pluto	3920-12-20 01:11 G	3153163.23	3153163.55	3153163.90	0.0066	0.0009
Jupiter	3938-04-19 20:24 G	3159493.18	3159493.35	3159493.52	0.0489	0.0397
Uranus	3946-10-17 05:16 G	3162595.66	3162595.72	3162595.84	0.0133	0.0127
Uranus	3948-09-15 09:50 G	3163294.63	3163294.91	3163295.20	0.0134	0.0015
Uranus	3950-08-15 20:09 G	3163994.15	3163994.34	3163994.54	0.0134	0.0098
Jupiter	3956-02-14 16:48 G	3166002.95	3166003.20	3166003.45	0.0538	0.0023
Saturn	3967-04-14 03:35 G	3170079.38	3170079.65	3170079.92	0.0270	0.0017
Saturn	3981-05-10 05:16 G	3175219.41	3175219.72	3175220.05	0.0290	0.0036
Uranus	3989-03-14 15:21 G	3178084.86	3178085.14	3178085.46	0.0145	0.0059
Uranus	3991-02-19 08:24 G	3178791.65	3178791.85	3178792.07	0.0145	0.0112

5TH MILLENNIUM CE

This is a list of transits of Mars in the 5th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Neptune	4001-04-03 04:19 G		3182487.40	3182487.68	3182487.97	0.0089	0.0012	
Neptune	4003-02-25 18:00 G		3183181.12	3183181.25	3183181.44	0.0089	0.0074	
Uranus	4031-06-11 08:09 G		3193513.64	3193513.84	3193514.09	0.0133	0.0083	
Uranus	4033-05-10 14:38 G		3194212.84	3194213.11	3194213.40	0.0134	0.0030	
Saturn	4055-09-08 10:19 G		3202368.68	3202368.93	3202369.20	0.0271	0.0064	

Jupiter	4056-10-06 05:02 G	3202762.42	3202762.71	3202763.02	0.0490	0.0072
Saturn	4069-10-05 09:50 G	3207509.62	3207509.91	3207510.22	0.0289	0.0099
Uranus	4073-11-09 01:40 G	3209005.24	3209005.57	3209005.90	0.0145	0.0006
Jupiter	4074-08-05 12:14 G	3209274.89	3209275.01	3209275.14	0.0538	0.0462
Neptune	4083-02-04 15:21 G	3212379.79	3212380.14	3212380.48	0.0088	0.0008
Jupiter	4110-05-11 12:43 G	3222336.79	3222337.03	3222337.27	0.0538	0.0170
Uranus	4116-02-04 11:16 G	3224431.71	3224431.97	3224432.25	0.0133	0.0040
Uranus	4118-01-03 18:57 G	3225131.07	3225131.29	3225131.55	0.0134	0.0073
Saturn	4144-02-03 06:28 G	3234657.53	3234657.77	3234658.02	0.0270	0.0118
Uranus	4156-07-30 08:38 G	3239218.65	3239218.86	3239219.12	0.0145	0.0103
Saturn	4158-03-01 11:45 G	3239797.72	3239797.99	3239798.28	0.0290	0.0145
Uranus	4158-07-07 06:14 G	3239925.48	3239925.76	3239926.06	0.0145	0.0069
Neptune	4164-11-17 19:26 G	3242251.10	3242251.31	3242251.57	0.0089	0.0051
Neptune	4166-10-12 09:21 G	3242944.63	3242944.89	3242945.16	0.0089	0.0034
Pluto	4169-03-29 13:40 G	3243843.78	3243844.07	3243844.37	0.0066	0.0033
Uranus	4198-10-30 11:16 G	3254650.83	3254650.97	3254651.16	0.0133	0.0107
Uranus	4200-09-29 16:04 G	3255349.88	3255350.17	3255350.45	0.0134	0.0003
Uranus	4202-08-30 00:28 G	3256049.39	3256049.52	3256049.67	0.0134	0.0116
Jupiter	4211-01-02 05:16 G	3259096.43	3259096.72	3259097.02	0.0489	0.0105
Jupiter	4228-10-31 20:52 G	3265609.15	3265609.37	3265609.58	0.0537	0.0277
Saturn	4232-06-29 19:11 G	3266946.10	3266946.30	3266946.53	0.0270	0.0163
Uranus	4241-03-27 16:04 G	3270138.86	3270139.17	3270139.50	0.0145	0.0040
Uranus	4243-03-04 09:35 G	3270845.78	3270845.90	3270846.07	0.0144	0.0130
Saturn	4246-07-27 04:04 G	3272086.47	3272086.67	3272086.90	0.0290	0.0213
Neptune	4246-09-20 00:28 G	3272141.23	3272141.52	3272141.85	0.0088	0.0040
Neptune	4248-08-16 10:48 G	3272837.74	3272837.95	3272838.23	0.0088	0.0063
Pluto	4256-10-17 19:11 G	3275822.25	3275822.30	3275822.41	0.0077	0.0075
Jupiter	4264-08-05 17:16 G	3278671.03	3278671.22	3278671.41	0.0539	0.0349
Uranus	4283-06-25 13:11 G	3285568.80	3285569.05	3285569.30	0.0133	0.0066
Uranus	4285-05-24 17:45 G	3286267.99	3286268.24	3286268.53	0.0134	0.0046

Saturn	4320-11-24 10:04 G	3299234.76	3299234.92	3299235.10	0.0270	0.0206
Uranus	4325-11-23 00:00 G	3301059.17	3301059.50	3301059.83	0.0145	0.0023
Neptune	4328-07-05 12:28 G	3302015.02	3302015.02	3302015.05	0.0089	0.0089
Jupiter	4329-06-22 14:52 G	3302366.89	3302367.12	3302367.36	0.0490	0.0310
Neptune	4330-05-30 02:24 G	3302708.32	3302708.60	3302708.89	0.0089	0.0005
Neptune	4332-04-22 15:21 G	3303402.05	3303402.14	3303402.28	0.0089	0.0082
Saturn	4334-12-20 02:24 G	3304373.39	3304373.60	3304373.82	0.0290	0.0212
Jupiter	4365-03-29 20:38 G	3315431.14	3315431.36	3315431.59	0.0489	0.0319
Uranus	4366-03-21 12:43 G	3315788.02	3315788.03	3315788.10	0.0133	0.0133
Uranus	4368-02-18 14:52 G	3316486.85	3316487.12	3316487.41	0.0134	0.0024
Uranus	4370-01-17 21:07 G	3317186.18	3317186.38	3317186.61	0.0134	0.0089
Jupiter	4383-01-27 02:38 G	3321943.37	3321943.61	3321943.86	0.0538	0.0096
Uranus	4408-08-12 11:02 G	3331272.70	3331272.96	3331273.25	0.0145	0.0083
Saturn	4409-04-19 12:43 G	3331522.91	3331523.03	3331523.18	0.0270	0.0231
Neptune	4410-05-04 12:00 G	3331902.93	3331903.00	3331903.09	0.0088	0.0086
Uranus	4410-07-20 09:35 G	3331979.66	3331979.90	3331980.18	0.0145	0.0088
Neptune	4412-03-30 22:33 G	3332599.11	3332599.44	3332599.80	0.0088	0.0016
Saturn	4423-05-14 22:19 G	3336661.27	3336661.43	3336661.62	0.0290	0.0244
Uranus	4450-11-13 12:57 G	3346705.85	3346706.04	3346706.27	0.0133	0.0090
Uranus	4452-10-12 16:19 G	3347404.90	3347405.18	3347405.46	0.0134	0.0020
Uranus	4454-09-12 01:11 G	3348104.52	3348104.55	3348104.62	0.0134	0.0132
Saturn	4467-07-29 07:55 G	3352807.74	3352807.83	3352807.94	0.0269	0.0248
Jupiter	4483-09-17 08:38 G	3358701.56	3358701.86	3358702.16	0.0490	0.0090
Uranus	4493-04-08 23:31 G	3362193.16	3362193.48	3362193.82	0.0145	0.0017
Neptune	4494-01-12 18:14 G	3362472.02	3362472.26	3362472.53	0.0089	0.0043
Neptune	4495-12-07 07:55 G	3363165.60	3363165.83	3363166.11	0.0089	0.0044
Pluto	4505-01-26 14:24 G	3366502.82	3366503.10	3366503.40	0.0078	0.0016
Saturn	4511-10-08 07:55 G	3368948.72	3368948.83	3368948.97	0.0290	0.0266
Uranus	4535-07-09 13:26 G	3377623.80	3377624.06	3377624.34	0.0133	0.0048
Jupiter	4537-04-23 17:31 G	3378277.98	3378278.23	3378278.47	0.0538	0.0109

Uranus	4537-06-07 18:43 G	3378323.03	3378323.28	3378323.54	0.0134	0.0063
Saturn	4555-12-24 06:57 G	3385096.61	3385096.79	3385097.00	0.0269	0.0185
Neptune	4575-11-13 11:02 G	3392360.66	3392360.96	3392361.31	0.0088	0.0030
Uranus	4575-12-29 07:26 G	3392406.65	3392406.81	3392407.01	0.0145	0.0122
Neptune	4577-10-09 21:21 G	3393057.23	3393057.39	3393057.63	0.0088	0.0072
Uranus	4577-12-05 10:33 G	3393113.64	3393113.94	3393114.27	0.0145	0.0050
Uranus	4618-04-04 12:00 G	3407842.86	3407843.00	3407843.16	0.0133	0.0114
Uranus	4620-03-03 13:40 G	3408541.79	3408542.07	3408542.36	0.0133	0.0005
Uranus	4622-01-31 20:38 G	3409241.21	3409241.36	3409241.56	0.0134	0.0106
Jupiter	4637-12-13 13:26 G	3415035.77	3415036.06	3415036.36	0.0489	0.0096
Saturn	4644-05-19 19:11 G	3417385.08	3417385.30	3417385.54	0.0269	0.0142
Jupiter	4655-10-14 20:24 G	3421550.17	3421550.35	3421550.54	0.0537	0.0360
Neptune	4657-08-30 13:40 G	3422235.97	3422236.07	3422236.21	0.0089	0.0081
Neptune	4659-07-25 02:09 G	3422929.31	3422929.59	3422929.88	0.0089	0.0005
Uranus	4660-08-25 17:31 G	3423326.93	3423327.23	3423327.54	0.0145	0.0057
Uranus	4662-08-02 17:31 G	3424034.03	3424034.23	3424034.45	0.0144	0.0112
Jupiter	4691-07-19 10:48 G	3434611.73	3434611.95	3434612.18	0.0539	0.0254
Uranus	4702-11-28 12:57 G	3438760.80	3438761.04	3438761.28	0.0133	0.0072
Uranus	4704-10-27 16:33 G	3439459.93	3439460.19	3439460.48	0.0134	0.0038
Saturn	4732-10-15 06:43 G	3449674.52	3449674.78	3449675.05	0.0270	0.0052
Neptune	4739-06-28 23:02 G	3452122.29	3452122.46	3452122.65	0.0088	0.0076
Neptune	4741-05-25 10:04 G	3452818.60	3452818.92	3452819.27	0.0088	0.0026
Uranus	4745-04-23 00:57 G	3454247.21	3454247.54	3454247.87	0.0145	0.0006
Pluto	4753-05-07 12:28 G	3457183.76	3457184.02	3457184.32	0.0078	0.0030
Jupiter	4756-06-02 00:43 G	3458305.34	3458305.53	3458305.72	0.0490	0.0378
Uranus	4787-07-23 12:57 G	3469678.78	3469679.04	3469679.33	0.0133	0.0031
Uranus	4789-06-21 16:48 G	3470377.98	3470378.20	3470378.44	0.0134	0.0079
Jupiter	4792-03-09 00:43 G	3471369.27	3471369.53	3471369.80	0.0490	0.0246
Jupiter	4810-01-08 03:21 G	3477883.42	3477883.64	3477883.86	0.0537	0.0250
Saturn	4821-03-11 06:43 G	3481963.51	3481963.78	3481964.05	0.0270	0.0013

Neptune	4823-03-10 20:24 G	3482693.10	3482693.35	3482693.63	0.0089	0.0033
Neptune	4825-02-01 08:38 G	3483386.65	3483386.86	3483387.11	0.0089	0.0053
Uranus	4828-01-11 02:52 G	3484460.39	3484460.62	3484460.86	0.0145	0.0102
Uranus	4829-12-18 07:26 G	3485167.53	3485167.81	3485168.12	0.0145	0.0068
Saturn	4835-03-27 17:31 G	3487093.03	3487093.23	3487093.47	0.0290	0.0210
Jupiter	4845-10-12 20:24 G	3490945.17	3490945.35	3490945.53	0.0538	0.0375
Uranus	4870-04-17 12:43 G	3499897.85	3499898.03	3499898.24	0.0133	0.0097
Uranus	4872-03-16 13:40 G	3500596.79	3500597.07	3500597.36	0.0134	0.0011
Uranus	4874-02-13 18:00 G	3501296.15	3501296.25	3501296.40	0.0134	0.0121
Neptune	4905-01-06 23:02 G	3512580.14	3512580.46	3512580.82	0.0088	0.0020
Neptune	4906-12-04 10:04 G	3513276.82	3513276.92	3513277.06	0.0088	0.0083
Saturn	4909-08-06 18:43 G	3514253.03	3514253.28	3514253.53	0.0270	0.0103
Jupiter	4910-08-27 03:35 G	3514638.39	3514638.65	3514638.91	0.0491	0.0249
Uranus	4912-09-07 14:09 G	3515380.77	3515381.09	3515381.41	0.0145	0.0038
Uranus	4914-08-15 15:07 G	3516088.01	3516088.13	3516088.30	0.0144	0.0130
Saturn	4923-08-24 06:43 G	3519383.47	3519383.78	3519384.10	0.0290	0.0060
Jupiter	4946-06-03 03:21 G	3527702.46	3527702.64	3527702.84	0.0489	0.0379
Uranus	4954-12-11 11:31 G	3530815.74	3530815.98	3530816.25	0.0133	0.0056
Uranus	4956-11-09 13:26 G	3531514.81	3531515.06	3531515.34	0.0134	0.0053
Jupiter	4964-04-03 18:00 G	3534217.01	3534217.25	3534217.50	0.0537	0.0115
Neptune	4986-10-25 12:57 G	3542456.89	3542457.04	3542457.24	0.0089	0.0071
Neptune	4988-09-18 03:35 G	3543150.37	3543150.65	3543150.94	0.0089	0.0014
Uranus	4995-05-28 17:31 G	3545594.20	3545594.23	3545594.31	0.0145	0.0143
Uranus	4997-05-05 02:38 G	3546301.29	3546301.61	3546301.95	0.0145	0.0027
Saturn	4997-12-31 19:11 G	3546542.09	3546542.30	3546542.52	0.0270	0.0165
Jupiter	5000-01-07 12:57 G	3547279.00	3547279.04	3547279.10	0.0539	0.0526

6TH MILLENNIUM CE

This is a list of transits of Mars in the 6th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	5012-01-18 23:02	G	3551672.14	3551672.46	3551672.78	0.0290	0.0009	
Uranus	5037-09-06 12:43	G	3561034.93	3561035.03	3561035.17	0.0133	0.0120	
Uranus	5039-08-06 11:31	G	3561733.69	3561733.98	3561734.26	0.0134	0.0014	
Uranus	5041-07-05 14:52	G	3562432.92	3562433.12	3562433.33	0.0134	0.0094	
Jupiter	5064-11-20 18:28	G	3570971.97	3570972.27	3570972.57	0.0490	0.0086	
Neptune	5068-08-21 10:48	G	3572341.74	3572341.95	3572342.21	0.0088	0.0065	
Neptune	5070-07-18 22:19	G	3573038.13	3573038.43	3573038.76	0.0088	0.0038	
Uranus	5080-01-24 09:07	G	3576514.59	3576514.88	3576515.17	0.0145	0.0076	
Uranus	5081-12-31 14:38	G	3577221.87	3577222.11	3577222.38	0.0145	0.0092	
Saturn	5086-05-28 14:52	G	3578830.97	3578831.12	3578831.27	0.0270	0.0223	
Saturn	5100-06-15 07:55	G	3583961.53	3583961.83	3583962.13	0.0290	0.0104	
Jupiter	5118-06-30 15:07	G	3590550.89	3590551.13	3590551.38	0.0538	0.0049	
Uranus	5122-05-02 09:50	G	3591952.70	3591952.91	3591953.16	0.0133	0.0080	
Uranus	5124-03-31 10:33	G	3592651.66	3592651.94	3592652.22	0.0134	0.0028	
Saturn	5144-09-06 10:19	G	3600115.85	3600115.93	3600116.03	0.0269	0.0252	
Neptune	5152-05-05 19:40	G	3602914.06	3602914.32	3602914.61	0.0089	0.0024	
Neptune	5154-03-30 08:38	G	3603607.69	3603607.86	3603608.10	0.0089	0.0063	
Uranus	5164-09-20 22:19	G	3607435.09	3607435.43	3607435.76	0.0145	0.0011	
Saturn	5188-11-07 15:21	G	3616248.85	3616249.14	3616249.44	0.0291	0.0120	
Uranus	5206-12-25 09:50	G	3622870.64	3622870.91	3622871.19	0.0133	0.0038	
Uranus	5208-11-23 11:31	G	3623569.76	3623569.98	3623570.24	0.0134	0.0070	
Jupiter	5219-02-16 01:11	G	3627306.25	3627306.55	3627306.84	0.0490	0.0117	

Saturn	5233-01-31 04:19 G	3632404.51	3632404.68	3632404.87	0.0268	0.0202
Neptune	5234-03-02 09:50 G	3632799.57	3632799.91	3632800.26	0.0088	0.0008
Jupiter	5236-12-19 23:31 G	3633823.32	3633823.48	3633823.64	0.0537	0.0409
Uranus	5247-06-10 21:21 G	3637648.22	3637648.39	3637648.61	0.0145	0.0117
Uranus	5249-05-18 07:11 G	3638355.50	3638355.80	3638356.12	0.0145	0.0052
Jupiter	5272-09-24 02:52 G	3646885.40	3646885.62	3646885.84	0.0538	0.0251
Saturn	5277-04-02 16:33 G	3648536.93	3648537.19	3648537.46	0.0290	0.0161
Uranus	5289-09-19 11:16 G	3653089.80	3653089.97	3653090.16	0.0133	0.0103
Uranus	5291-08-19 10:04 G	3653788.63	3653788.92	3653789.20	0.0133	0.0003
Uranus	5293-07-18 11:45 G	3654487.84	3654487.99	3654488.16	0.0134	0.0110
Neptune	5315-12-21 12:28 G	3662677.84	3662678.02	3662678.25	0.0089	0.0062
Neptune	5317-11-14 01:26 G	3663371.28	3663371.56	3663371.84	0.0089	0.0023
Saturn	5321-06-27 06:14 G	3664692.56	3664692.76	3664692.97	0.0269	0.0178
Uranus	5332-02-06 08:09 G	3668568.53	3668568.84	3668569.15	0.0145	0.0054
Uranus	5334-01-13 15:07 G	3669275.94	3669276.13	3669276.35	0.0145	0.0113
Jupiter	5337-08-06 09:50 G	3670576.68	3670576.91	3670577.15	0.0491	0.0309
Saturn	5365-08-26 18:28 G	3680824.01	3680824.27	3680824.53	0.0291	0.0170
Jupiter	5373-05-13 19:11 G	3683641.08	3683641.30	3683641.51	0.0489	0.0345
Uranus	5374-05-15 11:02 G	3684007.72	3684007.96	3684008.22	0.0133	0.0063
Uranus	5376-04-13 09:50 G	3684706.66	3684706.91	3684707.19	0.0134	0.0044
Jupiter	5391-03-17 15:21 G	3690157.90	3690158.14	3690158.37	0.0537	0.0196
Neptune	5397-10-14 19:11 G	3692561.06	3692561.30	3692561.61	0.0088	0.0055
Neptune	5399-09-11 07:11 G	3693257.54	3693257.80	3693258.12	0.0088	0.0048
Saturn	5409-11-22 01:26 G	3696981.32	3696981.56	3696981.81	0.0269	0.0119
Uranus	5416-10-03 18:14 G	3699488.92	3699489.26	3699489.59	0.0145	0.0008
Jupiter	5426-12-21 09:50 G	3703219.78	3703219.91	3703220.05	0.0539	0.0448
Saturn	5454-01-20 18:28 G	3713112.06	3713112.27	3713112.50	0.0290	0.0210
Uranus	5457-02-08 13:11 G	3714226.98	3714227.05	3714227.15	0.0133	0.0127
Uranus	5459-01-08 10:04 G	3714925.64	3714925.92	3714926.20	0.0133	0.0022
Uranus	5460-12-07 09:35 G	3715624.70	3715624.90	3715625.14	0.0134	0.0085

Neptune	5481-06-30 18:43 G	3723135.01	3723135.28	3723135.57	0.0089	0.0015
Neptune	5483-05-25 06:43 G	3723828.63	3723828.78	3723828.97	0.0089	0.0071
Jupiter	5491-11-01 23:16 G	3726911.17	3726911.47	3726911.77	0.0490	0.0095
Saturn	5498-04-17 06:28 G	3729269.52	3729269.77	3729270.03	0.0269	0.0089
Uranus	5499-06-23 19:40 G	3729702.07	3729702.32	3729702.58	0.0145	0.0097
Uranus	5501-06-01 06:43 G	3730409.51	3730409.78	3730410.09	0.0145	0.0072
Uranus	5541-10-04 13:40 G	3745144.87	3745145.07	3745145.30	0.0133	0.0086
Saturn	5542-06-17 05:45 G	3745400.66	3745400.74	3745400.83	0.0290	0.0279
Uranus	5543-09-03 10:48 G	3745843.67	3745843.95	3745844.23	0.0133	0.0020
Jupiter	5545-06-12 14:09 G	3746491.84	3746492.09	3746492.34	0.0537	0.0032
Uranus	5545-08-02 12:14 G	3746542.92	3746543.01	3746543.11	0.0134	0.0126
Neptune	5563-04-26 16:19 G	3753018.84	3753019.18	3753019.53	0.0088	0.0002
Uranus	5584-02-19 12:14 G	3760622.68	3760623.01	3760623.34	0.0145	0.0030
Uranus	5586-01-26 21:21 G	3761330.29	3761330.39	3761330.52	0.0145	0.0136
Saturn	5586-09-12 12:28 G	3761558.75	3761559.02	3761559.29	0.0270	0.0009
Uranus	5626-05-29 12:14 G	3776062.75	3776063.01	3776063.28	0.0133	0.0044
Uranus	5628-04-27 10:19 G	3776761.70	3776761.93	3776762.20	0.0133	0.0062
Neptune	5645-02-14 09:21 G	3782898.67	3782898.89	3782899.13	0.0089	0.0053
Jupiter	5646-01-26 18:28 G	3783244.97	3783245.27	3783245.57	0.0491	0.0079
Neptune	5647-01-08 22:19 G	3783592.18	3783592.43	3783592.72	0.0089	0.0032
Pluto	5660-10-12 07:26 G	3788617.59	3788617.81	3788618.10	0.0066	0.0044
Jupiter	5663-12-02 12:00 G	3789763.97	3789764.00	3789764.04	0.0536	0.0529
Uranus	5666-11-08 13:11 G	3790835.95	3790836.05	3790836.22	0.0145	0.0134
Uranus	5668-10-16 05:16 G	3791543.40	3791543.72	3791544.06	0.0145	0.0036
Saturn	5675-02-06 05:45 G	3793847.48	3793847.74	3793848.02	0.0269	0.0046
Jupiter	5699-09-06 03:07 G	3802825.39	3802825.63	3802825.88	0.0537	0.0104
Uranus	5709-02-22 16:48 G	3806282.05	3806282.20	3806282.39	0.0133	0.0106
Uranus	5711-01-22 12:57 G	3806980.76	3806981.04	3806981.33	0.0133	0.0003
Uranus	5712-12-21 13:26 G	3807679.91	3807680.06	3807680.26	0.0134	0.0104
Neptune	5726-12-09 00:14 G	3812780.23	3812780.51	3812780.83	0.0088	0.0046

Neptune	5728-11-04 11:31 G	3813476.76	3813476.98	3813477.29	0.0088	0.0058
Uranus	5751-07-07 06:43 G	3821756.50	3821756.78	3821757.10	0.0145	0.0068
Uranus	5753-06-13 20:24 G	3822464.11	3822464.35	3822464.60	0.0145	0.0100
Saturn	5763-07-04 18:14 G	3826137.02	3826137.26	3826137.49	0.0270	0.0137
Jupiter	5764-07-15 20:24 G	3826514.22	3826514.35	3826514.50	0.0492	0.0431
Saturn	5777-07-11 00:57 G	3831257.36	3831257.54	3831257.75	0.0290	0.0227
Uranus	5793-10-17 17:31 G	3837199.99	3837200.23	3837200.49	0.0133	0.0065
Uranus	5795-09-16 15:07 G	3837898.87	3837899.13	3837899.41	0.0133	0.0039
Jupiter	5800-04-22 21:50 G	3839578.14	3839578.41	3839578.69	0.0490	0.0219
Neptune	5810-08-26 13:40 G	3843355.79	3843356.07	3843356.36	0.0089	0.0007
Neptune	5812-07-20 02:09 G	3844049.48	3844049.59	3844049.76	0.0089	0.0078
Jupiter	5818-02-27 01:11 G	3846097.39	3846097.55	3846097.72	0.0535	0.0395
Uranus	5836-03-03 22:48 G	3852677.11	3852677.45	3852677.79	0.0145	0.0003
Saturn	5851-11-29 20:52 G	3858426.20	3858426.37	3858426.56	0.0269	0.0204
Jupiter	5853-12-01 18:14 G	3859159.04	3859159.26	3859159.48	0.0537	0.0251
Saturn	5865-12-06 03:35 G	3863546.38	3863546.65	3863546.93	0.0291	0.0141
Uranus	5876-07-14 00:57 G	3867419.46	3867419.54	3867419.62	0.0133	0.0126
Uranus	5878-06-12 20:09 G	3868118.07	3868118.34	3868118.63	0.0133	0.0024
Uranus	5880-05-11 17:45 G	3868817.03	3868817.24	3868817.48	0.0133	0.0081
Neptune	5892-06-18 18:14 G	3873237.92	3873238.26	3873238.61	0.0088	0.0009
Pluto	5909-01-21 14:24 G	3879297.77	3879298.10	3879298.44	0.0066	0.0004
Saturn	5910-03-11 00:00 G	3879711.42	3879711.50	3879711.60	0.0269	0.0254
Jupiter	5918-10-11 05:02 G	3882847.46	3882847.71	3882847.96	0.0492	0.0278
Uranus	5918-11-22 19:40 G	3882890.10	3882890.32	3882890.56	0.0145	0.0108
Uranus	5920-10-30 12:57 G	3883597.75	3883598.04	3883598.36	0.0145	0.0060
Saturn	5954-05-04 04:19 G	3895836.36	3895836.68	3895836.99	0.0290	0.0020
Jupiter	5954-07-18 07:11 G	3895911.62	3895911.80	3895912.01	0.0490	0.0375
Uranus	5961-03-09 02:24 G	3898337.39	3898337.60	3898337.82	0.0133	0.0086
Uranus	5963-02-05 21:50 G	3899036.13	3899036.41	3899036.69	0.0133	0.0016
Uranus	5965-01-04 19:11 G	3899735.20	3899735.30	3899735.44	0.0133	0.0121

Jupiter	5972-05-23 17:16 G	3902431.00	3902431.22	3902431.44	0.0536	0.0247
Neptune	5974-04-12 03:50 G	3903119.44	3903119.66	3903119.93	0.0089	0.0048
Neptune	5976-03-05 16:04 G	3903812.92	3903813.17	3903813.44	0.0089	0.0039
Saturn	5998-08-04 21:50 G	3912000.24	3912000.41	3912000.62	0.0269	0.0194

7TH MILLENNIUM CE

This is a list of transits of Mars in the 7th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	6003-07-20 13:26 G		3913810.74	3913811.06	3913811.39	0.0145	0.0044	
Uranus	6005-06-27 04:19 G		3914518.53	3914518.68	3914518.89	0.0145	0.0123	
Jupiter	6008-02-26 12:28 G		3915492.86	3915493.02	3915493.18	0.0537	0.0404	
Saturn	6042-09-27 02:09 G		3928124.27	3928124.59	3928124.91	0.0291	0.0019	
Uranus	6045-11-01 06:14 G		3929255.50	3929255.76	3929256.03	0.0133	0.0045	
Uranus	6047-10-01 01:11 G		3929954.31	3929954.55	3929954.82	0.0133	0.0059	
Neptune	6056-01-31 23:31 G		3932999.19	3932999.48	3932999.81	0.0088	0.0039	
Neptune	6057-12-28 10:48 G		3933695.75	3933695.95	3933696.23	0.0088	0.0064	
Jupiter	6073-01-04 02:52 G		3939181.32	3939181.62	3939181.92	0.0492	0.0091	
Uranus	6086-04-08 13:11 G		3944024.05	3944024.05	3944024.09	0.0145	0.0145	
Saturn	6086-12-29 21:21 G		3944289.16	3944289.39	3944289.63	0.0269	0.0134	
Uranus	6088-03-16 09:35 G		3944731.57	3944731.90	3944732.24	0.0145	0.0022	
Jupiter	6126-08-18 23:45 G		3958765.24	3958765.49	3958765.74	0.0536	0.0057	
Uranus	6128-07-28 14:09 G		3959474.93	3959475.09	3959475.28	0.0133	0.0105	
Uranus	6130-06-27 07:40 G		3960173.54	3960173.82	3960174.10	0.0133	0.0004	

Saturn	6131-02-21 15:35 G	3960412.85	3960413.15	3960413.46	0.0290	0.0079
Uranus	6132-05-26 03:50 G	3960872.50	3960872.66	3960872.87	0.0133	0.0100
Neptune	6137-11-26 15:50 G	3962883.12	3962883.16	3962883.22	0.0089	0.0087
Neptune	6139-10-21 06:00 G	3963576.47	3963576.75	3963577.04	0.0089	0.0003
Neptune	6141-09-13 17:45 G	3964270.16	3964270.24	3964270.36	0.0089	0.0083
Pluto	6157-05-01 05:02 G	3969978.39	3969978.71	3969979.03	0.0066	0.0017
Uranus	6170-12-05 12:14 G	3974944.74	3974945.01	3974945.31	0.0145	0.0079
Uranus	6172-11-12 06:57 G	3975652.54	3975652.79	3975653.08	0.0145	0.0089
Saturn	6175-05-26 02:38 G	3976577.37	3976577.61	3976577.87	0.0269	0.0105
Uranus	6213-03-23 17:02 G	3990392.97	3990393.21	3990393.47	0.0133	0.0063
Uranus	6215-02-20 11:16 G	3991091.72	3991091.97	3991092.26	0.0133	0.0040
Saturn	6219-07-17 19:11 G	3992700.00	3992700.30	3992700.61	0.0291	0.0089
Neptune	6219-09-16 03:35 G	3992760.64	3992760.65	3992760.74	0.0088	0.0088
Neptune	6221-08-12 15:35 G	3993456.82	3993457.15	3993457.50	0.0088	0.0015
Jupiter	6227-04-02 19:40 G	3995516.03	3995516.32	3995516.61	0.0491	0.0140
Jupiter	6245-02-08 13:55 G	4002038.01	4002038.08	4002038.16	0.0535	0.0509
Uranus	6255-08-03 12:14 G	4005865.67	4005866.01	4005866.35	0.0145	0.0011
Saturn	6263-10-20 21:35 G	4008866.13	4008866.40	4008866.67	0.0269	0.0048
Jupiter	6280-11-13 08:24 G	4015099.61	4015099.85	4015100.09	0.0537	0.0143
Uranus	6295-12-18 03:07 G	4020612.54	4020612.63	4020612.76	0.0133	0.0122
Uranus	6297-11-15 20:52 G	4021311.09	4021311.37	4021311.65	0.0133	0.0021
Uranus	6299-10-15 16:04 G	4022009.96	4022010.17	4022010.41	0.0133	0.0081
Neptune	6303-06-07 16:19 G	4023339.94	4023340.18	4023340.44	0.0089	0.0044
Neptune	6305-05-01 05:45 G	4024033.50	4024033.74	4024034.01	0.0089	0.0042
Saturn	6307-12-11 16:48 G	4024987.92	4024988.20	4024988.50	0.0290	0.0123
Uranus	6338-04-23 11:02 G	4036078.77	4036078.96	4036079.20	0.0146	0.0113
Uranus	6340-03-31 08:24 G	4036786.56	4036786.85	4036787.19	0.0145	0.0055
Jupiter	6345-09-21 02:24 G	4038786.37	4038786.60	4038786.85	0.0492	0.0308
Saturn	6352-03-15 22:19 G	4041154.16	4041154.43	4041154.70	0.0269	0.0025
Uranus	6380-08-12 08:24 G	4051530.63	4051530.85	4051531.08	0.0133	0.0080

Jupiter	6381-06-28 12:57 G	4051850.85	4051851.04	4051851.25	0.0491	0.0374
Uranus	6382-07-12 02:09 G	4052229.31	4052229.59	4052229.87	0.0133	0.0020
Uranus	6384-06-09 21:07 G	4052928.30	4052928.38	4052928.52	0.0133	0.0123
Neptune	6385-03-26 18:28 G	4053217.95	4053218.27	4053218.59	0.0088	0.0035
Neptune	6387-02-21 05:02 G	4053914.51	4053914.71	4053914.96	0.0088	0.0067
Saturn	6396-05-05 14:52 G	4057275.87	4057276.12	4057276.38	0.0290	0.0168
Jupiter	6399-05-06 18:00 G	4058372.06	4058372.25	4058372.45	0.0535	0.0330
Pluto	6405-08-09 18:43 G	4060659.02	4060659.28	4060659.55	0.0066	0.0039
Uranus	6422-12-19 09:07 G	4066999.58	4066999.88	4067000.22	0.0146	0.0048
Uranus	6424-11-26 04:33 G	4067707.52	4067707.69	4067707.91	0.0145	0.0119
Jupiter	6435-02-08 07:26 G	4071433.62	4071433.81	4071434.02	0.0537	0.0315
Saturn	6440-08-09 23:45 G	4073443.22	4073443.49	4073443.76	0.0270	0.0047
Uranus	6465-04-06 12:57 G	4082448.78	4082449.04	4082449.32	0.0133	0.0040
Neptune	6467-01-21 01:40 G	4083103.53	4083103.57	4083103.68	0.0089	0.0086
Uranus	6467-03-06 06:28 G	4083147.53	4083147.77	4083148.03	0.0133	0.0061
Neptune	6468-12-14 14:52 G	4083796.83	4083797.12	4083797.40	0.0089	0.0001
Neptune	6470-11-08 03:50 G	4084490.60	4084490.66	4084490.77	0.0089	0.0085
Saturn	6484-09-29 00:57 G	4089564.35	4089564.54	4089564.74	0.0290	0.0226
Pluto	6493-03-03 17:16 G	4092641.98	4092642.22	4092642.47	0.0078	0.0046
Jupiter	6499-12-16 07:40 G	4095120.53	4095120.82	4095121.12	0.0493	0.0108
Uranus	6507-08-17 04:19 G	4097920.35	4097920.68	4097921.02	0.0146	0.0016
Saturn	6529-01-04 10:33 G	4105731.68	4105731.94	4105732.20	0.0269	0.0089
Uranus	6548-01-02 01:55 G	4112668.41	4112668.58	4112668.79	0.0133	0.0098
Neptune	6548-11-07 19:40 G	4112979.25	4112979.32	4112979.45	0.0088	0.0085
Uranus	6549-11-30 19:11 G	4113367.02	4113367.30	4113367.58	0.0133	0.0002
Neptune	6550-10-05 07:26 G	4113675.47	4113675.81	4113676.15	0.0088	0.0018
Uranus	6551-10-30 12:28 G	4114065.86	4114066.02	4114066.22	0.0133	0.0103
Jupiter	6553-07-31 13:11 G	4114705.82	4114706.05	4114706.29	0.0535	0.0175
Jupiter	6589-05-05 11:02 G	4127767.87	4127767.96	4127768.05	0.0537	0.0499
Uranus	6590-05-06 05:16 G	4128133.44	4128133.72	4128134.00	0.0146	0.0084

Uranus	6592-04-13 03:35 G	4128841.39	4128841.65	4128841.94	0.0146	0.0082
Saturn	6617-06-01 20:09 G	4138021.14	4138021.34	4138021.55	0.0270	0.0177
Neptune	6632-08-01 00:14 G	4143560.27	4143560.51	4143560.77	0.0089	0.0043
Uranus	6632-08-27 08:09 G	4143586.59	4143586.84	4143587.10	0.0133	0.0056
Neptune	6634-06-25 12:14 G	4144253.77	4144254.01	4144254.27	0.0089	0.0042
Uranus	6634-07-27 00:00 G	4144285.24	4144285.50	4144285.77	0.0133	0.0044
Pluto	6653-11-18 15:50 G	4151339.94	4151340.16	4151340.45	0.0066	0.0042
Jupiter	6654-03-12 17:16 G	4151453.92	4151454.22	4151454.52	0.0492	0.0051
Uranus	6675-01-02 04:48 G	4159054.37	4159054.70	4159055.04	0.0146	0.0018
Saturn	6705-10-27 21:07 G	4170310.27	4170310.38	4170310.51	0.0270	0.0240
Jupiter	6707-10-27 06:57 G	4171039.54	4171039.79	4171040.04	0.0536	0.0020
Neptune	6714-05-20 06:43 G	4173436.48	4173436.78	4173437.12	0.0088	0.0033
Uranus	6715-05-24 22:04 G	4173806.28	4173806.42	4173806.58	0.0133	0.0112
Neptune	6716-04-15 17:31 G	4174133.05	4174133.23	4174133.48	0.0088	0.0069
Uranus	6717-04-22 13:26 G	4174504.78	4174505.06	4174505.34	0.0133	0.0013
Uranus	6719-03-22 05:45 G	4175203.54	4175203.74	4175203.97	0.0133	0.0087
Saturn	6719-10-25 18:14 G	4175421.24	4175421.26	4175421.32	0.0290	0.0287
Pluto	6741-06-14 01:55 G	4183323.33	4183323.58	4183323.85	0.0078	0.0039
Uranus	6757-09-22 07:55 G	4189267.65	4189267.83	4189268.06	0.0146	0.0115
Uranus	6759-08-31 09:07 G	4189975.58	4189975.88	4189976.22	0.0146	0.0052
Saturn	6764-02-05 20:09 G	4191595.19	4191595.34	4191595.51	0.0269	0.0220
Jupiter	6772-08-29 21:07 G	4194723.29	4194723.38	4194723.47	0.0494	0.0469
Neptune	6796-03-17 06:00 G	4203323.71	4203323.75	4203323.84	0.0089	0.0086
Neptune	6798-02-08 19:55 G	4204017.05	4204017.33	4204017.62	0.0089	0.0002
Neptune	6800-01-03 07:55 G	4204710.76	4204710.83	4204710.94	0.0089	0.0084
Uranus	6800-01-17 03:07 G	4204724.40	4204724.63	4204724.88	0.0133	0.0070
Uranus	6801-12-15 18:57 G	4205423.02	4205423.29	4205423.57	0.0133	0.0030
Uranus	6803-11-14 13:55 G	4206122.03	4206122.08	4206122.16	0.0133	0.0129
Saturn	6808-03-22 04:04 G	4207711.42	4207711.67	4207711.96	0.0290	0.0151
Jupiter	6808-06-05 22:33 G	4207787.17	4207787.44	4207787.72	0.0492	0.0202

Jupiter	6826-04-17 03:07 G	4214311.62	4214311.63	4214311.65	0.0534	0.0532
Uranus	6842-05-20 08:23 G	4220188.54	4220188.85	4220189.18	0.0146	0.0048
Uranus	6844-04-27 08:09 G	4220896.67	4220896.84	4220897.07	0.0146	0.0118
Saturn	6852-07-01 23:45 G	4223884.27	4223884.49	4223884.72	0.0270	0.0149
Jupiter	6862-01-19 18:57 G	4227373.05	4227373.29	4227373.54	0.0535	0.0122
Neptune	6877-12-31 06:14 G	4233197.68	4233197.76	4233197.91	0.0088	0.0084
Neptune	6879-11-27 18:00 G	4233893.91	4233894.25	4233894.59	0.0088	0.0019
Uranus	6882-10-12 18:28 G	4234944.21	4234944.27	4234944.39	0.0133	0.0126
Uranus	6884-09-10 09:50 G	4235642.63	4235642.91	4235643.19	0.0133	0.0027
Uranus	6886-08-10 02:38 G	4236341.38	4236341.61	4236341.85	0.0133	0.0072
Saturn	6896-08-15 16:04 G	4239999.88	4240000.17	4240000.48	0.0290	0.0089
Pluto	6902-02-27 14:23 G	4242020.88	4242021.10	4242021.38	0.0066	0.0044
Jupiter	6926-11-24 08:38 G	4251056.63	4251056.86	4251057.11	0.0494	0.0300
Uranus	6927-01-16 12:28 G	4251109.69	4251110.02	4251110.36	0.0146	0.0020
Saturn	6940-11-27 04:04 G	4256173.41	4256173.67	4256173.94	0.0269	0.0079
Neptune	6961-09-25 01:11 G	4263780.32	4263780.55	4263780.82	0.0089	0.0045
Jupiter	6962-08-31 18:28 G	4264121.10	4264121.27	4264121.46	0.0492	0.0394
Neptune	6963-08-19 14:52 G	4264473.87	4264474.12	4264474.38	0.0089	0.0041
Uranus	6967-06-08 00:28 G	4265862.32	4265862.52	4265862.75	0.0133	0.0084
Uranus	6969-05-06 16:33 G	4266560.91	4266561.19	4266561.47	0.0133	0.0015
Uranus	6971-04-05 09:21 G	4267259.77	4267259.89	4267260.05	0.0133	0.0114
Jupiter	6980-07-12 01:55 G	4270645.40	4270645.58	4270645.77	0.0534	0.0359
Saturn	6985-01-10 21:07 G	4272289.07	4272289.38	4272289.70	0.0290	0.0006
Pluto	6989-09-22 09:21 G	4274004.66	4274004.89	4274005.19	0.0078	0.0038

8TH MILLENNIUM CE

This is a list of transits of Mars in the 8th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	7009-10-06 06:14	G	4281322.50	4281322.76	4281323.06	0.0146	0.0082	
Uranus	7011-09-14 08:23	G	4282030.59	4282030.85	4282031.14	0.0146	0.0084	
Jupiter	7016-04-16 20:38	G	4283707.16	4283707.36	4283707.56	0.0536	0.0310	
Saturn	7029-04-23 15:21	G	4288461.87	4288462.14	4288462.42	0.0269	0.0038	
Neptune	7043-07-12 15:50	G	4293654.86	4293655.16	4293655.50	0.0088	0.0032	
Neptune	7045-06-08 02:23	G	4294351.43	4294351.60	4294351.85	0.0088	0.0070	
Uranus	7052-02-01 07:26	G	4296780.54	4296780.81	4296781.07	0.0133	0.0042	
Uranus	7053-12-30 23:31	G	4297479.24	4297479.48	4297479.75	0.0133	0.0057	
Saturn	7073-06-06 08:23	G	4304576.53	4304576.85	4304577.16	0.0290	0.0019	
Jupiter	7081-02-18 18:43	G	4307390.98	4307391.28	4307391.58	0.0493	0.0076	
Uranus	7094-06-03 08:52	G	4312243.54	4312243.87	4312244.22	0.0146	0.0016	
Saturn	7117-09-18 13:40	G	4320750.80	4320751.07	4320751.35	0.0269	0.0025	
Neptune	7125-05-12 06:57	G	4323543.78	4323543.79	4323543.85	0.0089	0.0088	
Neptune	7127-04-05 19:55	G	4324237.05	4324237.33	4324237.62	0.0089	0.0003	
Neptune	7129-02-27 08:38	G	4324930.78	4324930.86	4324930.99	0.0089	0.0083	
Jupiter	7134-10-08 07:11	G	4326979.56	4326979.80	4326980.04	0.0535	0.0165	
Uranus	7134-10-28 22:48	G	4327000.27	4327000.45	4327000.65	0.0133	0.0098	
Uranus	7136-09-26 15:07	G	4327698.85	4327699.13	4327699.41	0.0133	0.0001	
Uranus	7138-08-26 06:00	G	4328397.57	4328397.75	4328397.95	0.0133	0.0098	
Pluto	7150-06-08 19:55	G	4332702.04	4332702.33	4332702.65	0.0066	0.0025	
Saturn	7161-10-31 08:52	G	4336864.57	4336864.87	4336865.18	0.0290	0.0058	
Jupiter	7170-07-12 19:26	G	4340041.22	4340041.31	4340041.41	0.0536	0.0490	
Uranus	7177-02-21 04:19	G	4342456.49	4342456.68	4342456.90	0.0146	0.0115	
Uranus	7179-01-30 07:11	G	4343164.49	4343164.80	4343165.12	0.0146	0.0049	
Saturn	7206-02-11 12:28	G	4353038.75	4353039.02	4353039.30	0.0269	0.0047	

Neptune	7207-02-23 14:38 G	4353416.01	4353416.11	4353416.24	0.0088	0.0083
Neptune	7209-01-20 01:11 G	4354112.22	4354112.55	4354112.90	0.0088	0.0019
Uranus	7219-06-23 05:31 G	4357918.48	4357918.73	4357918.99	0.0133	0.0056
Uranus	7221-05-21 20:09 G	4358617.08	4358617.34	4358617.62	0.0133	0.0042
Jupiter	7235-05-17 11:31 G	4363725.70	4363725.98	4363726.27	0.0493	0.0166
Pluto	7238-01-02 02:52 G	4364686.46	4364686.62	4364686.82	0.0078	0.0062
Saturn	7250-03-25 21:50 G	4369152.12	4369152.41	4369152.72	0.0290	0.0088
Uranus	7261-10-19 09:50 G	4373377.60	4373377.91	4373378.25	0.0146	0.0047
Uranus	7263-09-27 11:31 G	4374085.81	4374085.98	4374086.21	0.0146	0.0117
Jupiter	7289-01-01 07:26 G	4383313.56	4383313.81	4383314.07	0.0534	0.0019
Neptune	7290-11-19 02:09 G	4384000.35	4384000.59	4384000.84	0.0089	0.0046
Neptune	7292-10-12 14:38 G	4384693.87	4384694.11	4384694.38	0.0089	0.0039
Saturn	7294-07-08 09:50 G	4385327.66	4385327.91	4385328.16	0.0270	0.0113
Uranus	7302-03-19 19:26 G	4388138.17	4388138.31	4388138.47	0.0133	0.0111
Uranus	7304-02-16 10:33 G	4388836.66	4388836.94	4388837.22	0.0133	0.0014
Uranus	7306-01-15 01:40 G	4389535.36	4389535.57	4389535.80	0.0133	0.0084
Saturn	7338-08-19 22:04 G	4401440.14	4401440.42	4401440.70	0.0290	0.0128
Uranus	7344-07-09 07:40 G	4403590.79	4403590.82	4403590.90	0.0146	0.0144
Uranus	7346-06-17 10:19 G	4404298.60	4404298.93	4404299.27	0.0146	0.0020
Jupiter	7353-11-04 10:33 G	4406995.72	4406995.94	4406996.18	0.0495	0.0319
Neptune	7372-09-03 00:14 G	4413873.21	4413873.51	4413873.86	0.0088	0.0032
Neptune	7374-07-31 11:31 G	4414569.77	4414569.98	4414570.19	0.0088	0.0071
Saturn	7382-12-02 12:28 G	4417615.80	4417616.02	4417616.27	0.0270	0.0143
Uranus	7386-11-12 00:57 G	4419056.32	4419056.54	4419056.80	0.0133	0.0070
Uranus	7388-10-10 16:19 G	4419754.91	4419755.18	4419755.46	0.0133	0.0028
Jupiter	7389-08-11 15:36 G	4420059.96	4420060.15	4420060.35	0.0493	0.0376
Uranus	7390-09-09 08:09 G	4420453.77	4420453.84	4420453.95	0.0133	0.0125
Pluto	7398-09-17 01:40 G	4423383.25	4423383.57	4423383.91	0.0066	0.0006
Jupiter	7407-06-25 17:16 G	4426586.11	4426586.22	4426586.35	0.0532	0.0464
Saturn	7427-01-14 21:36 G	4433729.21	4433729.40	4433729.62	0.0289	0.0216

Uranus	7429-03-07 12:00 G	4434511.73	4434512.00	4434512.30	0.0146	0.0077
Uranus	7431-02-13 13:55 G	4435219.82	4435220.08	4435220.37	0.0146	0.0086
Jupiter	7443-03-30 16:04 G	4439647.94	4439648.17	4439648.40	0.0535	0.0222
Neptune	7454-07-06 08:23 G	4443763.85	4443763.85	4443763.86	0.0089	0.0089
Neptune	7456-05-29 22:33 G	4444457.15	4444457.44	4444457.73	0.0089	0.0004
Neptune	7458-04-23 10:19 G	4445150.83	4445150.93	4445151.06	0.0089	0.0081
Uranus	7469-08-08 14:52 G	4449276.04	4449276.12	4449276.23	0.0133	0.0125
Saturn	7471-04-29 16:33 G	4449905.05	4449905.19	4449905.36	0.0271	0.0223
Uranus	7471-07-08 06:00 G	4449974.48	4449974.75	4449975.03	0.0133	0.0028
Uranus	7473-06-05 21:50 G	4450673.18	4450673.41	4450673.66	0.0133	0.0069
Jupiter	7508-01-31 04:19 G	4463329.39	4463329.68	4463329.97	0.0494	0.0134
Uranus	7513-11-03 09:50 G	4465432.57	4465432.91	4465433.25	0.0146	0.0013
Saturn	7529-08-08 02:52 G	4471189.55	4471189.62	4471189.73	0.0271	0.0256
Neptune	7536-04-18 00:28 G	4473634.39	4473634.52	4473634.67	0.0088	0.0081
Neptune	7538-03-15 10:48 G	4474330.62	4474330.95	4474331.29	0.0088	0.0021
Uranus	7554-04-03 18:57 G	4480194.10	4480194.29	4480194.53	0.0133	0.0085
Uranus	7556-03-02 11:02 G	4480892.69	4480892.96	4480893.25	0.0133	0.0013
Uranus	7558-01-30 02:38 G	4481591.46	4481591.61	4481591.78	0.0133	0.0109
Jupiter	7561-09-19 15:36 G	4482919.94	4482920.15	4482920.36	0.0533	0.0292
Uranus	7596-07-23 07:26 G	4495645.61	4495645.81	4495646.05	0.0146	0.0111
Jupiter	7597-06-24 01:55 G	4495981.40	4495981.58	4495981.77	0.0534	0.0356
Uranus	7598-07-01 08:23 G	4496353.55	4496353.85	4496354.18	0.0146	0.0051
Saturn	7618-01-02 04:48 G	4503478.51	4503478.70	4503478.91	0.0270	0.0190
Neptune	7620-01-14 04:48 G	4504220.48	4504220.70	4504220.97	0.0089	0.0046
Neptune	7621-12-07 19:26 G	4504914.05	4504914.31	4504914.57	0.0089	0.0039
Uranus	7638-11-27 00:43 G	4511112.27	4511112.53	4511112.80	0.0133	0.0044
Uranus	7640-10-25 16:33 G	4511810.95	4511811.19	4511811.46	0.0133	0.0053
Pluto	7646-12-27 14:38 G	4514064.86	4514065.11	4514065.43	0.0066	0.0033
Saturn	7662-02-08 14:23 G	4519587.00	4519587.10	4519587.22	0.0289	0.0269
Jupiter	7662-04-25 10:48 G	4519662.65	4519662.95	4519663.26	0.0495	0.0024

Uranus	7681-03-20 03:36 G	4526566.34	4526566.65	4526566.98	0.0146	0.0049
Uranus	7683-02-26 04:19 G	4527274.48	4527274.68	4527274.91	0.0146	0.0113
Neptune	7701-10-27 12:14 G	4534091.71	4534092.01	4534092.36	0.0088	0.0029
Neptune	7703-09-23 23:02 G	4534788.29	4534788.46	4534788.67	0.0088	0.0074
Saturn	7706-05-30 12:14 G	4535767.77	4535768.01	4535768.28	0.0271	0.0112
Jupiter	7715-12-15 01:55 G	4539253.34	4539253.58	4539253.82	0.0532	0.0154
Uranus	7721-08-23 11:45 G	4541331.83	4541331.99	4541332.20	0.0133	0.0101
Uranus	7723-07-23 04:33 G	4542030.41	4542030.69	4542030.98	0.0133	0.0005
Uranus	7725-06-20 19:11 G	4542729.12	4542729.30	4542729.53	0.0133	0.0093
Saturn	7750-07-06 11:31 G	4551875.76	4551875.98	4551876.22	0.0289	0.0195
Jupiter	7751-09-18 21:21 G	4552315.36	4552315.39	4552315.43	0.0535	0.0528
Uranus	7763-12-09 03:07 G	4556779.61	4556779.63	4556779.72	0.0146	0.0144
Uranus	7765-11-16 03:07 G	4557487.30	4557487.63	4557487.98	0.0146	0.0017
Neptune	7783-08-30 15:50 G	4563984.13	4563984.16	4563984.25	0.0089	0.0087
Neptune	7785-07-24 05:02 G	4564677.42	4564677.71	4564678.00	0.0089	0.0002
Neptune	7787-06-17 18:00 G	4565371.16	4565371.25	4565371.36	0.0089	0.0083
Saturn	7794-10-24 21:21 G	4568057.11	4568057.39	4568057.67	0.0270	0.0034
Uranus	7806-04-18 16:04 G	4572249.93	4572250.17	4572250.43	0.0133	0.0060
Uranus	7808-03-17 07:40 G	4572948.56	4572948.82	4572949.10	0.0133	0.0037
Jupiter	7816-07-21 00:43 G	4575996.26	4575996.53	4575996.81	0.0494	0.0204
Saturn	7838-12-02 06:14 G	4584165.46	4584165.76	4584166.06	0.0289	0.0088
Uranus	7848-08-06 01:26 G	4587700.30	4587700.56	4587700.86	0.0145	0.0080
Uranus	7850-07-15 01:55 G	4588408.32	4588408.58	4588408.88	0.0145	0.0082
Neptune	7865-06-10 15:36 G	4593852.98	4593853.15	4593853.32	0.0088	0.0077
Neptune	7867-05-08 01:11 G	4594549.24	4594549.55	4594549.91	0.0088	0.0026
Jupiter	7870-03-10 22:33 G	4595587.19	4595587.44	4595587.69	0.0533	0.0021
Saturn	7883-03-21 15:21 G	4600345.87	4600346.14	4600346.42	0.0270	0.0019
Uranus	7889-01-12 00:28 G	4602469.41	4602469.52	4602469.68	0.0133	0.0117
Uranus	7890-12-11 18:14 G	4603167.99	4603168.26	4603168.54	0.0133	0.0020
Uranus	7892-11-09 09:50 G	4603866.69	4603866.91	4603867.15	0.0133	0.0077

Saturn	7927-04-28 04:33 G	4616453.39	4616453.69	4616454.00	0.0289	0.0049
Uranus	7933-04-04 01:11 G	4618621.21	4618621.55	4618621.89	0.0145	0.0014
Jupiter	7935-01-08 18:28 G	4619266.04	4619266.27	4619266.52	0.0496	0.0298
Neptune	7949-03-10 17:02 G	4624440.98	4624441.21	4624441.49	0.0089	0.0042
Neptune	7951-02-02 05:31 G	4625134.51	4625134.73	4625135.01	0.0089	0.0044
Jupiter	7970-10-16 05:02 G	4632330.56	4632330.71	4632330.86	0.0494	0.0423
Saturn	7971-08-16 18:28 G	4632635.02	4632635.27	4632635.55	0.0270	0.0090
Uranus	7973-09-07 04:33 G	4633387.48	4633387.69	4633387.94	0.0133	0.0076
Uranus	7975-08-06 20:52 G	4634086.09	4634086.37	4634086.65	0.0133	0.0021
Uranus	7977-07-05 12:57 G	4634784.92	4634785.04	4634785.19	0.0133	0.0117
Jupiter	7988-08-31 06:28 G	4638859.66	4638859.77	4638859.90	0.0532	0.0468

9TH MILLENNIUM CE

This is a list of transits of Mars in the 9th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	8015-09-21 15:36 G	4648741.84	4648742.15	4648742.46	0.0289	0.0005		
Uranus	8015-12-22 23:45 G	4648834.28	4648834.49	4648834.72	0.0145	0.0110		
Uranus	8017-11-29 23:02 G	4649542.15	4649542.46	4649542.79	0.0145	0.0050		
Jupiter	8024-06-04 18:14 G	4651921.03	4651921.26	4651921.50	0.0533	0.0193		
Neptune	8030-12-20 06:43 G	4654310.47	4654310.78	4654311.13	0.0088	0.0024		
Neptune	8032-11-15 17:16 G	4655007.07	4655007.22	4655007.38	0.0088	0.0079		
Uranus	8058-05-02 05:31 G	4664305.47	4664305.73	4664306.01	0.0133	0.0037		
Saturn	8060-01-09 19:40 G	4664923.08	4664923.32	4664923.58	0.0270	0.0116		

Uranus	8060-03-30 22:04 G	4665004.18	4665004.42	4665004.68	0.0133	0.0060
Jupiter	8089-04-04 08:38 G	4675600.56	4675600.86	4675601.16	0.0496	0.0058
Uranus	8100-08-19 18:43 G	4679754.97	4679755.28	4679755.61	0.0145	0.0047
Uranus	8102-07-28 18:28 G	4680463.08	4680463.27	4680463.51	0.0145	0.0113
Saturn	8104-02-15 04:33 G	4681029.39	4681029.69	4681030.00	0.0289	0.0033
Neptune	8112-10-25 05:31 G	4684204.65	4684204.73	4684204.88	0.0089	0.0081
Neptune	8114-09-18 20:38 G	4684898.07	4684898.36	4684898.65	0.0089	0.0004
Uranus	8141-01-26 14:38 G	4694524.91	4694525.11	4694525.31	0.0133	0.0094
Jupiter	8142-11-26 07:55 G	4695193.62	4695193.83	4695194.04	0.0531	0.0282
Uranus	8142-12-26 08:09 G	4695223.56	4695223.84	4695224.13	0.0133	0.0004
Uranus	8144-11-24 01:40 G	4695922.40	4695922.57	4695922.77	0.0133	0.0099
Saturn	8148-06-05 17:31 G	4697212.03	4697212.23	4697212.44	0.0270	0.0183
Jupiter	8178-08-31 12:43 G	4708255.89	4708256.03	4708256.18	0.0534	0.0433
Uranus	8183-05-09 15:21 G	4709968.11	4709968.14	4709968.21	0.0145	0.0143
Uranus	8185-04-16 12:43 G	4710675.70	4710676.03	4710676.38	0.0145	0.0015
Saturn	8192-07-10 01:55 G	4713317.29	4713317.58	4713317.89	0.0289	0.0067
Neptune	8194-08-03 14:09 G	4714071.89	4714072.09	4714072.31	0.0088	0.0070
Neptune	8196-06-30 00:00 G	4714768.19	4714768.50	4714768.83	0.0088	0.0032
Uranus	8225-09-21 15:21 G	4725442.90	4725443.14	4725443.41	0.0133	0.0055
Uranus	8227-08-21 09:21 G	4726141.64	4726141.89	4726142.17	0.0133	0.0042
Saturn	8236-10-30 16:33 G	4729500.02	4729500.19	4729500.38	0.0270	0.0206
Jupiter	8243-07-01 19:11 G	4731935.02	4731935.30	4731935.58	0.0495	0.0172
Uranus	8268-01-05 08:38 G	4740888.58	4740888.86	4740889.14	0.0145	0.0082
Uranus	8269-12-13 06:28 G	4741596.50	4741596.77	4741597.07	0.0145	0.0076
Neptune	8278-05-05 10:04 G	4744661.67	4744661.92	4744662.20	0.0089	0.0034
Neptune	8280-03-28 23:45 G	4745355.28	4745355.49	4745355.75	0.0089	0.0051
Saturn	8280-12-04 12:57 G	4745605.77	4745606.04	4745606.32	0.0288	0.0130
Jupiter	8297-02-20 21:36 G	4751528.15	4751528.40	4751528.65	0.0532	0.0059
Uranus	8308-06-17 21:36 G	4755662.27	4755662.40	4755662.57	0.0133	0.0112
Uranus	8310-05-17 17:31 G	4756360.95	4756361.23	4756361.51	0.0133	0.0015

Uranus	8312-04-15 09:36 G	4757059.70	4757059.90	4757060.14	0.0133	0.0081
Uranus	8352-09-02 02:52 G	4771809.29	4771809.62	4771809.96	0.0145	0.0019
Uranus	8354-08-11 00:57 G	4772517.47	4772517.54	4772517.67	0.0145	0.0139
Neptune	8360-02-13 08:23 G	4774529.51	4774529.85	4774530.19	0.0088	0.0015
Jupiter	8361-12-19 15:21 G	4775204.93	4775205.14	4775205.37	0.0497	0.0339
Neptune	8362-01-09 18:28 G	4775226.22	4775226.27	4775226.34	0.0088	0.0087
Saturn	8369-04-30 22:04 G	4777894.20	4777894.42	4777894.67	0.0288	0.0187
Saturn	8383-07-05 14:38 G	4783072.95	4783073.11	4783073.29	0.0272	0.0216
Uranus	8393-02-09 21:36 G	4786580.18	4786580.40	4786580.65	0.0133	0.0072
Uranus	8395-01-09 16:04 G	4787278.90	4787279.17	4787279.45	0.0133	0.0024
Uranus	8396-12-08 08:23 G	4787977.74	4787977.85	4787977.99	0.0133	0.0119
Jupiter	8397-09-25 21:50 G	4788269.23	4788269.41	4788269.61	0.0495	0.0381
Uranus	8435-05-23 00:14 G	4802022.32	4802022.51	4802022.75	0.0145	0.0112
Uranus	8437-04-29 20:38 G	4802730.05	4802730.36	4802730.69	0.0145	0.0044
Neptune	8441-12-20 00:57 G	4804425.40	4804425.54	4804425.74	0.0089	0.0072
Neptune	8443-11-13 15:07 G	4805118.86	4805119.13	4805119.43	0.0089	0.0014
Jupiter	8451-05-18 12:43 G	4807861.78	4807862.03	4807862.28	0.0531	0.0093
Saturn	8471-11-29 09:21 G	4815361.67	4815361.89	4815362.12	0.0271	0.0162
Uranus	8475-11-06 02:23 G	4816799.55	4816799.60	4816799.69	0.0133	0.0129
Pluto	8477-07-03 04:33 G	4817404.66	4817404.69	4817404.81	0.0078	0.0077
Uranus	8477-10-04 22:48 G	4817498.19	4817498.45	4817498.74	0.0133	0.0033
Uranus	8479-09-03 15:50 G	4818196.91	4818197.16	4818197.40	0.0133	0.0064
Jupiter	8516-03-15 03:50 G	4831538.38	4831538.66	4831538.95	0.0497	0.0163
Uranus	8520-01-18 18:14 G	4832942.95	4832943.26	4832943.58	0.0145	0.0050
Uranus	8521-12-26 15:07 G	4833650.91	4833651.13	4833651.37	0.0145	0.0106
Neptune	8523-09-27 18:43 G	4834291.06	4834291.28	4834291.56	0.0088	0.0061
Neptune	8525-08-24 04:33 G	4834987.40	4834987.69	4834988.01	0.0088	0.0042
Saturn	8560-04-25 15:50 G	4847650.89	4847651.16	4847651.43	0.0272	0.0084
Uranus	8560-07-01 01:55 G	4847717.38	4847717.58	4847717.80	0.0133	0.0090
Uranus	8562-05-30 20:23 G	4848416.07	4848416.35	4848416.63	0.0133	0.0007

Uranus	8564-04-28 13:40 G	4849114.90	4849115.07	4849115.26	0.0133	0.0101
Jupiter	8569-11-07 13:55 G	4851133.93	4851134.08	4851134.23	0.0529	0.0419
Uranus	8602-10-08 16:19 G	4863156.13	4863156.18	4863156.25	0.0145	0.0142
Uranus	8604-09-15 09:50 G	4863863.58	4863863.91	4863864.26	0.0145	0.0012
Jupiter	8605-08-13 08:23 G	4864195.64	4864195.85	4864196.07	0.0532	0.0270
Neptune	8607-07-01 07:55 G	4864882.56	4864882.83	4864883.12	0.0089	0.0024
Neptune	8609-05-24 20:23 G	4865576.17	4865576.35	4865576.58	0.0089	0.0061
Pluto	8638-03-18 09:36 G	4876100.65	4876100.90	4876101.19	0.0066	0.0037
Uranus	8645-02-24 01:11 G	4878635.30	4878635.55	4878635.82	0.0133	0.0051
Uranus	8647-01-23 19:26 G	4879334.06	4879334.31	4879334.59	0.0133	0.0045
Saturn	8648-09-21 01:40 G	4879940.28	4879940.57	4879940.85	0.0271	0.0006
Jupiter	8670-06-09 14:23 G	4887871.80	4887872.10	4887872.40	0.0497	0.0015
Uranus	8687-06-05 05:16 G	4894076.45	4894076.72	4894077.01	0.0145	0.0083
Neptune	8689-04-07 15:50 G	4894748.82	4894749.16	4894749.51	0.0088	0.0004
Uranus	8689-05-12 23:31 G	4894784.20	4894784.48	4894784.79	0.0145	0.0071
Saturn	8692-10-22 02:52 G	4896042.39	4896042.62	4896042.88	0.0288	0.0169
Jupiter	8724-02-03 06:00 G	4907467.53	4907467.75	4907467.97	0.0530	0.0252
Pluto	8725-10-14 22:19 G	4908087.18	4908087.43	4908087.73	0.0078	0.0035
Uranus	8727-11-21 03:36 G	4908854.50	4908854.65	4908854.83	0.0133	0.0109
Uranus	8729-10-20 00:14 G	4909553.23	4909553.51	4909553.80	0.0133	0.0013
Uranus	8731-09-18 18:00 G	4910252.05	4910252.25	4910252.49	0.0133	0.0082
Saturn	8737-02-16 01:26 G	4912229.29	4912229.56	4912229.83	0.0271	0.0060
Jupiter	8759-11-07 14:52 G	4920528.97	4920529.12	4920529.29	0.0532	0.0408
Neptune	8771-02-14 22:19 G	4924646.25	4924646.43	4924646.67	0.0089	0.0061
Uranus	8772-01-31 17:16 G	4924996.89	4924997.22	4924997.55	0.0145	0.0024
Neptune	8773-01-08 13:55 G	4925339.81	4925340.08	4925340.37	0.0089	0.0024
Uranus	8774-01-08 12:28 G	4925704.89	4925705.02	4925705.18	0.0145	0.0131
Saturn	8781-03-18 12:28 G	4928330.75	4928331.02	4928331.31	0.0288	0.0112
Uranus	8812-07-15 02:52 G	4939772.40	4939772.62	4939772.88	0.0133	0.0070
Uranus	8814-06-13 23:02 G	4940471.19	4940471.46	4940471.74	0.0133	0.0025

Uranus	8816-05-12 15:50 G	4941170.06	4941170.16	4941170.30	0.0133	0.0120
Jupiter	8824-09-03 08:52 G	4944205.61	4944205.87	4944206.15	0.0497	0.0218
Saturn	8825-07-13 10:48 G	4944518.72	4944518.95	4944519.19	0.0271	0.0143
Neptune	8852-11-20 05:16 G	4954510.46	4954510.72	4954511.04	0.0088	0.0048
Neptune	8854-10-17 13:55 G	4955206.82	4955207.08	4955207.37	0.0088	0.0054
Uranus	8854-10-20 14:23 G	4955209.92	4955210.10	4955210.32	0.0145	0.0117
Uranus	8856-09-27 06:14 G	4955917.44	4955917.76	4955918.10	0.0145	0.0036
Saturn	8869-08-12 11:45 G	4960619.69	4960619.99	4960620.30	0.0288	0.0038
Jupiter	8878-04-28 19:26 G	4963801.06	4963801.31	4963801.56	0.0530	0.0094
Pluto	8886-06-27 18:00 G	4966783.10	4966783.25	4966783.49	0.0066	0.0054
Uranus	8895-04-10 03:21 G	4969991.55	4969991.64	4969991.72	0.0134	0.0127
Uranus	8897-03-09 01:26 G	4970690.29	4970690.56	4970690.84	0.0133	0.0032
Uranus	8899-02-05 19:40 G	4971389.09	4971389.32	4971389.58	0.0133	0.0064
Saturn	8913-12-07 17:02 G	4976807.01	4976807.21	4976807.43	0.0271	0.0180
Neptune	8936-08-25 05:31 G	4985103.45	4985103.73	4985104.02	0.0089	0.0013
Neptune	8938-07-19 19:55 G	4985797.18	4985797.33	4985797.51	0.0089	0.0072
Uranus	8939-06-18 02:23 G	4986130.31	4986130.60	4986130.93	0.0145	0.0057
Uranus	8941-05-25 20:23 G	4986838.11	4986838.35	4986838.61	0.0145	0.0097
Jupiter	8943-02-22 07:26 G	4987475.58	4987475.81	4987476.06	0.0499	0.0293
Saturn	8958-01-06 05:31 G	4992907.43	4992907.73	4992908.04	0.0288	0.0006
Jupiter	8978-11-29 11:45 G	5000539.85	5000539.99	5000540.13	0.0496	0.0440
Uranus	8979-12-04 02:23 G	5000909.41	5000909.60	5000909.84	0.0133	0.0089
Uranus	8981-11-02 00:14 G	5001608.23	5001608.51	5001608.80	0.0133	0.0007
Uranus	8983-10-01 17:45 G	5002307.07	5002307.24	5002307.43	0.0133	0.0102

10TH MILLENNIUM CE

This is a list of transits of Mars in the 10th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	9002-05-04 17:16	G	5009096.12	5009096.22	5009096.33	0.0271	0.0252	
Neptune	9018-06-02 03:21	G	5014968.31	5014968.64	5014968.99	0.0088	0.0010	
Uranus	9024-02-13 16:48	G	5017050.86	5017051.20	5017051.54	0.0145	0.0005	
Jupiter	9032-07-25 10:33	G	5020135.70	5020135.94	5020136.19	0.0531	0.0144	
Saturn	9046-06-02 05:02	G	5025195.40	5025195.71	5025196.01	0.0288	0.0032	
Saturn	9060-08-11 02:09	G	5030379.51	5030379.59	5030379.69	0.0272	0.0258	
Uranus	9064-07-29 01:11	G	5031827.29	5031827.55	5031827.82	0.0133	0.0050	
Uranus	9066-06-27 20:38	G	5032526.10	5032526.36	5032526.63	0.0133	0.0046	
Saturn	9090-09-27 13:55	G	5041384.08	5041384.08	5041384.10	0.0271	0.0271	
Jupiter	9097-05-19 17:45	G	5043809.95	5043810.24	5043810.54	0.0498	0.0055	
Neptune	9100-04-11 22:04	G	5044867.19	5044867.42	5044867.67	0.0089	0.0049	
Neptune	9102-03-06 11:45	G	5045560.74	5045560.99	5045561.27	0.0089	0.0036	
Uranus	9106-11-03 15:21	G	5047263.89	5047264.14	5047264.43	0.0145	0.0087	
Uranus	9108-10-11 07:26	G	5047971.52	5047971.81	5047972.12	0.0145	0.0066	
Saturn	9134-10-27 07:11	G	5057483.51	5057483.80	5057484.09	0.0287	0.0080	
Uranus	9147-04-25 01:26	G	5062046.41	5062046.56	5062046.75	0.0134	0.0107	
Saturn	9149-01-04 21:50	G	5062667.29	5062667.41	5062667.56	0.0272	0.0239	
Uranus	9149-03-23 23:31	G	5062745.20	5062745.48	5062745.77	0.0133	0.0011	
Jupiter	9151-01-15 20:23	G	5063408.16	5063408.35	5063408.54	0.0529	0.0345	
Uranus	9151-02-20 18:14	G	5063444.06	5063444.26	5063444.49	0.0133	0.0084	
Neptune	9182-01-14 17:31	G	5074729.93	5074730.23	5074730.56	0.0088	0.0034	
Neptune	9183-12-12 00:57	G	5075426.35	5075426.54	5075426.79	0.0088	0.0068	
Jupiter	9186-10-20 08:38	G	5076469.67	5076469.86	5076470.06	0.0531	0.0324	
Uranus	9191-07-01 04:19	G	5078184.35	5078184.68	5078185.02	0.0145	0.0027	
Uranus	9193-06-07 21:50	G	5078892.26	5078892.41	5078892.59	0.0145	0.0126	

Saturn	9223-03-22 07:40 G	5089771.55	5089771.82	5089772.11	0.0287	0.0122
Uranus	9231-12-18 00:14 G	5092964.29	5092964.51	5092964.78	0.0133	0.0069
Uranus	9233-11-15 22:04 G	5093663.15	5093663.42	5093663.70	0.0133	0.0027
Uranus	9235-10-15 17:02 G	5094362.12	5094362.21	5094362.35	0.0133	0.0121
Saturn	9237-05-31 17:45 G	5094956.03	5094956.24	5094956.47	0.0273	0.0173
Jupiter	9251-08-15 04:04 G	5100144.40	5100144.67	5100144.96	0.0498	0.0182
Neptune	9263-11-26 12:28 G	5104630.98	5104631.02	5104631.13	0.0089	0.0086
Neptune	9265-10-20 05:16 G	5105324.44	5105324.72	5105325.01	0.0089	0.0002
Neptune	9267-09-13 18:43 G	5106018.21	5106018.28	5106018.39	0.0089	0.0084
Uranus	9274-03-20 03:21 G	5108397.47	5108397.64	5108397.85	0.0145	0.0119
Uranus	9276-02-25 16:19 G	5109104.85	5109105.18	5109105.51	0.0145	0.0032
Jupiter	9305-04-11 15:50 G	5119741.93	5119742.16	5119742.41	0.0528	0.0174
Saturn	9311-08-17 15:36 G	5122060.95	5122061.15	5122061.35	0.0287	0.0215
Uranus	9314-09-13 01:26 G	5123183.46	5123183.56	5123183.65	0.0134	0.0125
Uranus	9316-08-12 00:43 G	5123882.25	5123882.53	5123882.81	0.0133	0.0029
Uranus	9318-07-11 21:21 G	5124581.16	5124581.39	5124581.65	0.0133	0.0066
Saturn	9325-10-26 04:19 G	5127244.44	5127244.68	5127244.94	0.0272	0.0132
Neptune	9345-08-29 08:38 G	5134491.72	5134491.86	5134492.06	0.0088	0.0077
Neptune	9347-07-26 16:19 G	5135187.85	5135188.18	5135188.51	0.0088	0.0024
Uranus	9358-11-15 14:09 G	5139317.79	5139318.09	5139318.40	0.0145	0.0060
Uranus	9360-10-23 04:19 G	5140025.45	5140025.68	5140025.97	0.0145	0.0092
Jupiter	9370-02-01 16:48 G	5143414.00	5143414.20	5143414.40	0.0501	0.0366
Pluto	9381-02-26 20:23 G	5147457.04	5147457.35	5147457.69	0.0066	0.0003
Uranus	9399-05-08 00:14 G	5154101.31	5154101.51	5154101.75	0.0133	0.0087
Saturn	9400-01-11 08:52 G	5154349.84	5154349.87	5154349.93	0.0287	0.0284
Uranus	9401-04-07 00:00 G	5154800.22	5154800.50	5154800.79	0.0133	0.0009
Uranus	9403-03-06 19:11 G	5155499.13	5155499.30	5155499.49	0.0133	0.0102
Jupiter	9405-11-09 21:07 G	5156478.20	5156478.38	5156478.58	0.0498	0.0380
Saturn	9414-03-23 07:26 G	5159533.54	5159533.81	5159534.09	0.0273	0.0057
Neptune	9429-06-06 19:55 G	5165088.08	5165088.33	5165088.61	0.0089	0.0037

Neptune	9431-05-01 11:31 G	5165781.75	5165781.98	5165782.24	0.0089	0.0048
Uranus	9443-07-14 02:23 G	5170238.26	5170238.60	5170238.94	0.0145	0.0001
Jupiter	9459-07-07 15:07 G	5176075.87	5176076.13	5176076.38	0.0529	0.0018
Uranus	9484-01-01 01:55 G	5185019.31	5185019.58	5185019.84	0.0133	0.0047
Uranus	9485-11-30 00:14 G	5185718.25	5185718.51	5185718.78	0.0133	0.0048
Saturn	9502-08-18 14:23 G	5191822.81	5191823.10	5191823.38	0.0273	0.0018
Neptune	9511-03-11 06:00 G	5194949.42	5194949.75	5194950.09	0.0088	0.0020
Neptune	9513-02-04 13:11 G	5195645.92	5195646.05	5195646.20	0.0088	0.0081
Jupiter	9524-04-29 04:33 G	5199747.42	5199747.69	5199747.97	0.0500	0.0182
Uranus	9526-04-03 03:36 G	5200451.41	5200451.65	5200451.93	0.0145	0.0090
Uranus	9528-03-10 15:21 G	5201158.84	5201159.14	5201159.45	0.0145	0.0060
Saturn	9546-09-13 12:00 G	5207919.84	5207920.00	5207920.17	0.0286	0.0240
Uranus	9566-09-27 00:43 G	5215238.37	5215238.53	5215238.73	0.0134	0.0104
Uranus	9568-08-26 02:09 G	5215937.31	5215937.59	5215937.87	0.0133	0.0008
Uranus	9570-07-25 21:07 G	5216636.19	5216636.38	5216636.62	0.0133	0.0086
Jupiter	9577-12-27 11:02 G	5219347.91	5219347.96	5219348.02	0.0527	0.0512
Saturn	9591-01-12 17:02 G	5224111.94	5224112.21	5224112.48	0.0273	0.0088
Neptune	9593-01-21 11:16 G	5224851.81	5224851.97	5224852.13	0.0089	0.0073
Neptune	9594-12-16 02:38 G	5225545.33	5225545.61	5225545.91	0.0089	0.0012
Uranus	9610-11-28 16:33 G	5231371.86	5231372.19	5231372.52	0.0145	0.0030
Uranus	9612-11-05 06:14 G	5232079.60	5232079.76	5232079.97	0.0145	0.0121
Jupiter	9613-09-30 20:23 G	5232409.11	5232409.35	5232409.60	0.0529	0.0154
Saturn	9635-02-07 06:00 G	5240208.51	5240208.75	5240208.99	0.0286	0.0171
Uranus	9651-05-22 03:07 G	5246156.40	5246156.63	5246156.90	0.0133	0.0064
Uranus	9653-04-20 01:26 G	5246855.30	5246855.56	5246855.85	0.0133	0.0032
Uranus	9655-03-19 20:52 G	5247554.28	5247554.37	5247554.48	0.0133	0.0123
Neptune	9674-10-22 20:23 G	5254711.15	5254711.35	5254711.63	0.0089	0.0064
Neptune	9676-09-18 03:07 G	5255407.34	5255407.63	5255407.96	0.0088	0.0038
Jupiter	9678-07-23 17:16 G	5256080.93	5256081.22	5256081.52	0.0500	0.0011
Saturn	9679-06-09 06:43 G	5256401.58	5256401.78	5256402.01	0.0272	0.0179

Uranus	9693-08-17 22:19 G	5261585.24	5261585.43	5261585.62	0.0145	0.0118
Uranus	9695-07-26 06:00 G	5262292.42	5262292.75	5262293.08	0.0145	0.0030
Saturn	9723-07-05 18:00 G	5272497.96	5272498.25	5272498.55	0.0287	0.0078
Jupiter	9732-03-22 20:23 G	5275681.17	5275681.35	5275681.54	0.0526	0.0364
Uranus	9734-02-15 01:40 G	5276375.47	5276375.57	5276375.72	0.0134	0.0121
Uranus	9736-01-15 03:36 G	5277074.38	5277074.65	5277074.93	0.0133	0.0025
Uranus	9737-12-14 01:11 G	5277773.32	5277773.55	5277773.81	0.0133	0.0069
Neptune	9758-08-01 18:28 G	5285309.00	5285309.27	5285309.56	0.0089	0.0025
Neptune	9760-06-25 08:38 G	5286002.67	5286002.86	5286003.10	0.0089	0.0060
Saturn	9767-11-03 20:23 G	5288690.20	5288690.35	5288690.51	0.0272	0.0227
Jupiter	9767-12-27 00:00 G	5288743.32	5288743.50	5288743.69	0.0529	0.0364
Uranus	9778-04-15 08:23 G	5292505.57	5292505.85	5292506.18	0.0145	0.0061
Uranus	9780-03-22 18:57 G	5293213.05	5293213.29	5293213.58	0.0145	0.0089
Saturn	9811-11-29 20:23 G	5304786.05	5304786.35	5304786.65	0.0286	0.0032
Uranus	9818-10-11 06:00 G	5307293.53	5307293.75	5307293.98	0.0134	0.0081
Uranus	9820-09-09 06:00 G	5307992.47	5307992.75	5307993.04	0.0133	0.0014
Uranus	9822-08-09 02:23 G	5308691.45	5308691.60	5308691.79	0.0133	0.0106
Jupiter	9832-10-18 12:57 G	5312414.78	5312415.04	5312415.31	0.0500	0.0218
Neptune	9840-05-03 16:48 G	5315168.87	5315169.20	5315169.55	0.0088	0.0008
Uranus	9862-12-11 19:40 G	5323425.99	5323426.32	5323426.66	0.0145	0.0003
Pluto	9875-10-31 05:16 G	5328132.44	5328132.72	5328133.05	0.0066	0.0021
Jupiter	9886-06-18 08:09 G	5332015.59	5332015.84	5332016.09	0.0527	0.0135
Saturn	9900-04-25 03:36 G	5337074.34	5337074.65	5337074.95	0.0286	0.0016
Uranus	9903-06-06 07:40 G	5338211.56	5338211.82	5338212.10	0.0133	0.0042
Uranus	9905-05-05 06:57 G	5338910.54	5338910.79	5338911.07	0.0133	0.0052
Saturn	9914-07-09 04:33 G	5342262.51	5342262.69	5342262.88	0.0273	0.0208
Neptune	9922-03-19 07:26 G	5345072.61	5345072.81	5345073.02	0.0089	0.0062
Neptune	9924-02-11 00:14 G	5345766.25	5345766.51	5345766.81	0.0089	0.0023
Uranus	9945-09-01 01:26 G	5353639.32	5353639.56	5353639.84	0.0145	0.0092
Uranus	9947-08-09 07:55 G	5354346.53	5354346.83	5354347.16	0.0145	0.0056

Jupiter	9951-04-08 19:55 G	5355685.10	5355685.33	5355685.57	0.0502	0.0295
Uranus	9986-03-01 07:55 G	5368430.66	5368430.83	5368431.05	0.0134	0.0098
Jupiter	9987-01-14 07:55 G	5368749.76	5368749.83	5368749.91	0.0499	0.0481
Uranus	9988-01-29 11:16 G	5369129.68	5369129.97	5369130.25	0.0133	0.0003
Saturn	9988-09-18 03:50 G	5369362.37	5369362.66	5369362.96	0.0286	0.0058
Uranus	9989-12-28 08:38 G	5369828.68	5369828.86	5369829.09	0.0133	0.0091

11TH MILLENNIUM CE

This is a list of transits of Mars in the 11th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	10002-12-02 00:28 G		5374550.31	5374550.52	5374550.72	0.0273	0.0189	
Neptune	10003-12-17 07:11 G		5374930.54	5374930.80	5374931.10	0.0089	0.0051	
Neptune	10005-11-12 12:00 G		5375626.73	5375627.00	5375627.30	0.0088	0.0049	
Uranus	10030-04-28 12:14 G		5384559.69	5384560.01	5384560.34	0.0145	0.0033	
Uranus	10032-04-04 22:04 G		5385267.24	5385267.42	5385267.64	0.0145	0.0116	
Jupiter	10040-09-12 07:40 G		5388349.57	5388349.82	5388350.08	0.0527	0.0052	
Uranus	10070-10-24 13:11 G		5399348.80	5399349.05	5399349.31	0.0133	0.0058	
Uranus	10072-09-22 13:55 G		5400047.82	5400048.08	5400048.36	0.0133	0.0036	
Uranus	10074-08-22 09:21 G		5400746.84	5400746.89	5400746.99	0.0133	0.0128	
Saturn	10077-02-11 01:26 G		5401650.28	5401650.56	5401650.86	0.0286	0.0091	
Neptune	10087-09-26 12:28 G		5405529.74	5405530.02	5405530.31	0.0089	0.0015	
Neptune	10089-08-20 04:48 G		5406223.55	5406223.70	5406223.90	0.0089	0.0070	
Saturn	10091-04-27 18:14 G		5406839.01	5406839.26	5406839.52	0.0274	0.0125	

Jupiter	10105-07-04 12:14 G	5412019.72	5412020.01	5412020.31	0.0502	0.0041
Uranus	10113-01-16 22:48 G	5414773.27	5414773.45	5414773.64	0.0145	0.0119
Uranus	10114-12-25 01:26 G	5415480.24	5415480.56	5415480.90	0.0145	0.0027
Uranus	10153-07-20 12:00 G	5429567.87	5429568.00	5429568.18	0.0134	0.0113
Uranus	10155-06-19 17:16 G	5430266.94	5430267.22	5430267.51	0.0133	0.0018
Uranus	10157-05-18 15:50 G	5430965.94	5430966.16	5430966.41	0.0133	0.0076
Jupiter	10159-03-05 17:31 G	5431622.10	5431622.23	5431622.38	0.0524	0.0439
Saturn	10165-07-08 23:16 G	5433939.23	5433939.47	5433939.72	0.0285	0.0164
Neptune	10169-06-27 00:43 G	5435388.19	5435388.53	5435388.88	0.0088	0.0005
Saturn	10179-09-21 20:38 G	5439127.10	5439127.36	5439127.64	0.0274	0.0098
Jupiter	10194-12-08 19:40 G	5444684.11	5444684.32	5444684.54	0.0528	0.0287
Uranus	10197-09-13 10:19 G	5445693.65	5445693.93	5445694.25	0.0145	0.0060
Uranus	10199-08-21 17:45 G	5446400.98	5446401.24	5446401.51	0.0145	0.0089
Pluto	10209-10-20 11:45 G	5450112.82	5450112.99	5450113.20	0.0078	0.0062
Uranus	10238-03-15 18:14 G	5460486.03	5460486.26	5460486.51	0.0134	0.0073
Uranus	10240-02-12 20:38 G	5461185.08	5461185.36	5461185.64	0.0133	0.0022
Uranus	10242-01-11 18:00 G	5461884.13	5461884.25	5461884.41	0.0133	0.0114
Neptune	10251-05-13 23:31 G	5465293.25	5465293.48	5465293.72	0.0089	0.0053
Neptune	10253-04-06 15:36 G	5465986.89	5465987.15	5465987.43	0.0089	0.0032
Saturn	10253-12-03 08:38 G	5466227.68	5466227.86	5466228.06	0.0285	0.0218
Jupiter	10259-09-29 13:11 G	5468353.78	5468354.05	5468354.33	0.0501	0.0183
Saturn	10268-02-16 17:45 G	5471415.95	5471416.24	5471416.52	0.0274	0.0032
Uranus	10282-05-12 00:00 G	5476614.16	5476614.50	5476614.83	0.0145	0.0001
Jupiter	10313-05-31 22:04 G	5487956.19	5487956.42	5487956.65	0.0525	0.0230
Uranus	10320-12-09 17:31 G	5490705.18	5490705.23	5490705.35	0.0134	0.0128
Uranus	10322-11-09 00:57 G	5491404.27	5491404.54	5491404.83	0.0133	0.0032
Uranus	10324-10-08 01:11 G	5492103.32	5492103.55	5492103.82	0.0133	0.0062
Neptune	10333-02-09 11:31 G	5495149.70	5495149.98	5495150.30	0.0088	0.0041
Neptune	10335-01-06 15:36 G	5495845.91	5495846.15	5495846.41	0.0088	0.0059
Jupiter	10349-03-05 07:40 G	5501017.69	5501017.82	5501017.96	0.0528	0.0447

Saturn	10356-07-13 16:48 G	5503704.92	5503705.20	5503705.49	0.0274	0.0032
Uranus	10365-01-30 12:14 G	5506827.75	5506828.01	5506828.28	0.0145	0.0087
Uranus	10367-01-07 15:07 G	5507534.83	5507535.13	5507535.44	0.0145	0.0059
Jupiter	10378-03-19 02:23 G	5511623.42	5511623.60	5511623.80	0.0504	0.0385
Uranus	10405-08-04 02:09 G	5521623.38	5521623.59	5521623.81	0.0134	0.0087
Uranus	10407-07-04 06:14 G	5522322.48	5522322.76	5522323.05	0.0133	0.0008
Uranus	10409-06-02 06:00 G	5523021.58	5523021.75	5523021.96	0.0133	0.0100
Jupiter	10413-12-24 03:21 G	5524687.45	5524687.64	5524687.83	0.0501	0.0381
Neptune	10416-11-21 01:55 G	5525750.29	5525750.58	5525750.87	0.0089	0.0007
Neptune	10418-10-15 17:31 G	5526444.12	5526444.23	5526444.40	0.0089	0.0078
Saturn	10444-12-07 19:26 G	5535994.05	5535994.31	5535994.58	0.0274	0.0104
Uranus	10449-09-26 23:31 G	5537748.16	5537748.48	5537748.81	0.0145	0.0029
Uranus	10451-09-04 05:45 G	5538455.56	5538455.74	5538455.94	0.0145	0.0119
Jupiter	10467-08-25 04:33 G	5544289.44	5544289.69	5544289.95	0.0525	0.0084
Saturn	10488-12-29 17:16 G	5552087.04	5552087.22	5552087.42	0.0285	0.0220
Uranus	10490-03-29 09:36 G	5552541.63	5552541.90	5552542.17	0.0133	0.0046
Uranus	10492-02-26 12:43 G	5553240.77	5553241.03	5553241.31	0.0133	0.0048
Neptune	10496-09-22 23:02 G	5554911.41	5554911.46	5554911.58	0.0088	0.0086
Neptune	10498-08-20 01:55 G	5555607.25	5555607.58	5555607.93	0.0088	0.0014
Jupiter	10532-06-12 12:00 G	5567956.73	5567957.00	5567957.27	0.0504	0.0198
Uranus	10532-06-17 16:33 G	5567962.01	5567962.19	5567962.42	0.0145	0.0114
Saturn	10533-05-05 11:31 G	5568283.78	5568283.98	5568284.17	0.0274	0.0198
Uranus	10534-05-25 14:23 G	5568668.78	5568669.10	5568669.44	0.0145	0.0031
Uranus	10572-12-23 09:36 G	5582760.72	5582760.90	5582761.10	0.0134	0.0100
Uranus	10574-11-22 17:45 G	5583459.96	5583460.24	5583460.53	0.0133	0.0006
Uranus	10576-10-21 19:55 G	5584159.12	5584159.33	5584159.54	0.0133	0.0088
Saturn	10577-05-27 14:09 G	5584376.82	5584377.09	5584377.37	0.0285	0.0114
Neptune	10580-07-07 07:40 G	5585513.59	5585513.82	5585514.08	0.0089	0.0047
Neptune	10582-06-01 01:40 G	5586207.32	5586207.57	5586207.85	0.0089	0.0038
Pluto	10616-11-24 18:28 G	5598802.09	5598802.27	5598802.51	0.0066	0.0050

Uranus	10617-02-13 02:38 G	5598882.32	5598882.61	5598882.93	0.0145	0.0055
Uranus	10619-01-21 04:33 G	5599589.44	5599589.69	5599589.96	0.0145	0.0092
Saturn	10621-09-30 07:26 G	5600572.72	5600572.81	5600572.91	0.0274	0.0258
Jupiter	10621-11-20 03:36 G	5600623.41	5600623.65	5600623.90	0.0525	0.0117
Uranus	10657-08-18 19:40 G	5613679.07	5613679.32	5613679.59	0.0134	0.0058
Uranus	10659-07-19 01:55 G	5614378.31	5614378.58	5614378.85	0.0133	0.0036
Uranus	10661-06-17 00:43 G	5615077.45	5615077.53	5615077.61	0.0133	0.0127
Neptune	10662-04-04 10:48 G	5615368.64	5615368.95	5615369.27	0.0088	0.0033
Neptune	10664-02-29 12:28 G	5616064.84	5616065.02	5616065.29	0.0088	0.0067
Saturn	10665-10-22 01:11 G	5616665.26	5616665.55	5616665.84	0.0285	0.0055
Saturn	10680-01-07 03:50 G	5621855.60	5621855.66	5621855.75	0.0274	0.0264
Jupiter	10686-09-06 23:16 G	5624290.18	5624290.47	5624290.77	0.0503	0.0009
Uranus	10699-11-04 01:55 G	5629096.49	5629096.58	5629096.71	0.0145	0.0136
Uranus	10701-10-11 18:43 G	5629802.95	5629803.28	5629803.61	0.0145	0.0007
Jupiter	10740-05-12 05:02 G	5643895.55	5643895.71	5643895.88	0.0523	0.0398
Uranus	10740-05-14 18:43 G	5643898.13	5643898.28	5643898.45	0.0134	0.0111
Uranus	10742-04-14 05:31 G	5644597.44	5644597.73	5644598.01	0.0133	0.0016
Neptune	10744-02-22 11:31 G	5645276.94	5645276.98	5645277.04	0.0089	0.0087
Uranus	10744-03-13 07:40 G	5645296.60	5645296.82	5645297.06	0.0133	0.0077
Neptune	10746-01-16 06:28 G	5645970.48	5645970.77	5645971.06	0.0089	0.0002
Neptune	10747-12-11 00:43 G	5646664.43	5646664.53	5646664.65	0.0089	0.0082
Saturn	10754-03-18 18:28 G	5648953.97	5648954.27	5648954.57	0.0285	0.0009
Saturn	10768-06-03 12:28 G	5654144.81	5654145.02	5654145.26	0.0275	0.0174
Jupiter	10776-02-14 16:33 G	5656956.98	5656957.19	5656957.41	0.0526	0.0284
Uranus	10784-07-01 11:45 G	5660016.73	5660016.99	5660017.29	0.0145	0.0078
Uranus	10786-06-08 08:38 G	5660723.58	5660723.86	5660724.17	0.0145	0.0067
Uranus	10825-01-07 07:11 G	5674816.56	5674816.80	5674817.05	0.0134	0.0069
Neptune	10825-11-16 19:40 G	5675130.19	5675130.32	5675130.49	0.0088	0.0079
Uranus	10826-12-07 14:38 G	5675515.83	5675516.11	5675516.40	0.0133	0.0026
Neptune	10827-10-13 21:07 G	5675826.06	5675826.38	5675826.72	0.0088	0.0020

Uranus	10828-11-05 15:21 G	5676215.03	5676215.14	5676215.30	0.0133	0.0117
Jupiter	10840-12-02 12:28 G	5680624.77	5680625.02	5680625.28	0.0503	0.0253
Saturn	10842-08-11 21:21 G	5681242.10	5681242.39	5681242.68	0.0284	0.0054
Saturn	10856-10-27 10:04 G	5686432.69	5686432.92	5686433.17	0.0275	0.0150
Pluto	10863-04-17 00:28 G	5688795.20	5688795.52	5688795.84	0.0066	0.0001
Uranus	10869-02-26 03:21 G	5690937.32	5690937.64	5690937.98	0.0145	0.0018
Uranus	10871-02-03 03:50 G	5691644.53	5691644.66	5691644.84	0.0145	0.0129
Jupiter	10894-08-06 01:11 G	5700229.32	5700229.55	5700229.79	0.0523	0.0214
Uranus	10907-10-04 06:14 G	5705035.66	5705035.76	5705035.88	0.0134	0.0123
Neptune	10909-09-01 09:50 G	5705733.66	5705733.91	5705734.17	0.0089	0.0043
Uranus	10909-09-02 18:14 G	5705734.99	5705735.26	5705735.56	0.0134	0.0028
Neptune	10911-07-27 03:07 G	5706427.39	5706427.63	5706427.91	0.0089	0.0042
Uranus	10911-08-02 22:33 G	5706434.21	5706434.44	5706434.71	0.0133	0.0067
Saturn	10931-01-05 19:55 G	5713530.05	5713530.33	5713530.61	0.0284	0.0088
Saturn	10945-03-24 04:19 G	5718721.41	5718721.68	5718721.96	0.0275	0.0083
Uranus	10951-11-18 00:00 G	5721151.29	5721151.50	5721151.75	0.0145	0.0102
Uranus	10953-10-24 15:07 G	5721857.83	5721858.13	5721858.47	0.0145	0.0041
Jupiter	10959-05-23 19:26 G	5723895.08	5723895.31	5723895.56	0.0506	0.0282
Neptune	10991-05-28 04:19 G	5735587.38	5735587.68	5735588.03	0.0088	0.0028
Uranus	10992-05-28 19:11 G	5735954.09	5735954.30	5735954.55	0.0134	0.0081
Neptune	10993-04-23 05:31 G	5736283.56	5736283.73	5736283.96	0.0088	0.0072
Uranus	10994-04-28 04:48 G	5736653.42	5736653.70	5736653.99	0.0133	0.0014
Uranus	10996-03-27 08:23 G	5737352.68	5737352.85	5737353.03	0.0133	0.0105

12TH MILLENNIUM CE

This is a list of transits of Mars in the 12th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	11019-06-02 09:21 G		5745818.64	5745818.89	5745819.15	0.0283	0.0147	
Saturn	11033-08-18 00:57 G		5751009.26	5751009.54	5751009.82	0.0275	0.0063	
Uranus	11036-07-15 14:38 G		5752071.81	5752072.11	5752072.44	0.0145	0.0043	
Uranus	11038-06-22 09:07 G		5752778.67	5752778.88	5752779.14	0.0145	0.0102	
Jupiter	11048-11-01 15:50 G		5756563.90	5756564.16	5756564.41	0.0524	0.0034	
Neptune	11073-04-17 10:19 G		5765496.87	5765496.93	5765497.03	0.0089	0.0085	
Neptune	11075-03-12 06:43 G		5766190.48	5766190.78	5766191.07	0.0089	0.0001	
Uranus	11077-01-22 07:11 G		5766872.52	5766872.80	5766873.07	0.0134	0.0038	
Neptune	11077-02-02 23:16 G		5766884.41	5766884.47	5766884.58	0.0089	0.0085	
Uranus	11078-12-22 15:07 G		5767571.88	5767572.13	5767572.40	0.0133	0.0055	
Saturn	11107-10-27 10:33 G		5778106.73	5778106.94	5778107.17	0.0284	0.0187	
Pluto	11109-09-08 13:26 G		5778788.80	5778789.06	5778789.38	0.0066	0.0028	
Jupiter	11113-08-19 02:09 G		5780229.29	5780229.59	5780229.88	0.0505	0.0038	
Uranus	11119-04-06 16:19 G		5782286.04	5782286.18	5782286.37	0.0144	0.0124	
Uranus	11121-03-13 01:11 G		5782992.23	5782992.55	5782992.88	0.0145	0.0016	
Saturn	11122-01-12 16:19 G		5783297.89	5783298.18	5783298.47	0.0276	0.0004	
Neptune	11155-01-10 13:11 G		5795348.90	5795349.05	5795349.27	0.0089	0.0074	
Neptune	11156-12-06 12:28 G		5796044.72	5796045.02	5796045.37	0.0088	0.0025	
Uranus	11159-10-19 06:43 G		5797091.58	5797091.78	5797092.00	0.0134	0.0091	
Uranus	11161-09-17 19:55 G		5797791.05	5797791.33	5797791.62	0.0134	0.0005	
Uranus	11163-08-18 01:26 G		5798490.39	5798490.56	5798490.78	0.0133	0.0097	
Jupiter	11167-04-24 19:11 G		5799836.20	5799836.30	5799836.41	0.0521	0.0474	
Saturn	11196-03-23 00:14 G		5810396.49	5810396.51	5810396.56	0.0283	0.0281	
Pluto	11197-04-08 13:55 G		5810777.81	5810778.08	5810778.39	0.0078	0.0029	
Jupiter	11203-01-27 07:55 G		5812897.60	5812897.83	5812898.07	0.0524	0.0216	
Uranus	11203-12-02 05:02 G		5813206.43	5813206.71	5813207.02	0.0145	0.0065	

Uranus	11205-11-07 18:14 G	5813913.00	5813913.26	5813913.55	0.0145	0.0078
Saturn	11210-06-08 06:14 G	5815586.47	5815586.76	5815587.04	0.0276	0.0045
Neptune	11238-10-26 06:28 G	5825953.53	5825953.77	5825954.05	0.0089	0.0042
Neptune	11240-09-19 02:23 G	5826647.37	5826647.60	5826647.88	0.0089	0.0044
Uranus	11244-06-12 19:40 G	5828010.06	5828010.32	5828010.60	0.0134	0.0049
Uranus	11246-05-13 06:57 G	5828709.53	5828709.79	5828710.07	0.0133	0.0046
Jupiter	11267-11-12 22:19 G	5836563.16	5836563.43	5836563.71	0.0505	0.0183
Uranus	11286-08-22 13:11 G	5843421.04	5843421.05	5843421.11	0.0144	0.0143
Uranus	11288-07-28 15:50 G	5844126.83	5844127.16	5844127.49	0.0145	0.0006
Uranus	11290-07-05 09:36 G	5844833.84	5844833.90	5844834.02	0.0145	0.0139
Saturn	11298-11-02 04:48 G	5847875.44	5847875.70	5847875.97	0.0276	0.0111
Neptune	11320-07-20 21:21 G	5855806.08	5855806.39	5855806.73	0.0088	0.0022
Jupiter	11321-07-19 05:45 G	5856169.54	5856169.74	5856169.95	0.0521	0.0311
Neptune	11322-06-16 20:38 G	5856502.22	5856502.36	5856502.57	0.0088	0.0076
Uranus	11327-03-09 16:04 G	5858229.00	5858229.17	5858229.38	0.0134	0.0103
Uranus	11329-02-06 09:21 G	5858928.60	5858928.89	5858929.18	0.0134	0.0006
Uranus	11331-01-06 17:16 G	5859628.02	5859628.22	5859628.46	0.0133	0.0088
Saturn	11342-11-22 21:50 G	5863966.29	5863966.41	5863966.55	0.0283	0.0252
Pluto	11356-01-30 12:00 G	5868782.75	5868783.00	5868783.28	0.0066	0.0037
Jupiter	11357-04-23 07:11 G	5869231.65	5869231.80	5869231.95	0.0524	0.0420
Uranus	11371-04-20 00:28 G	5874341.28	5874341.52	5874341.81	0.0144	0.0086
Uranus	11373-03-26 08:38 G	5875047.57	5875047.86	5875048.18	0.0145	0.0056
Jupiter	11386-05-02 10:48 G	5879832.78	5879832.95	5879833.12	0.0508	0.0410
Saturn	11387-03-30 17:31 G	5880165.05	5880165.23	5880165.44	0.0276	0.0202
Neptune	11402-06-12 06:00 G	5885716.69	5885716.75	5885716.88	0.0089	0.0084
Neptune	11404-05-06 02:52 G	5886410.33	5886410.62	5886410.91	0.0089	0.0002
Neptune	11406-03-30 22:19 G	5887104.38	5887104.43	5887104.51	0.0089	0.0086
Uranus	11411-11-03 08:38 G	5889147.60	5889147.86	5889148.12	0.0134	0.0060
Uranus	11413-10-02 22:19 G	5889847.16	5889847.43	5889847.71	0.0134	0.0036
Uranus	11415-09-02 03:36 G	5890546.60	5890546.65	5890546.75	0.0133	0.0128

Jupiter	11422-02-07 00:28 G	5892896.33	5892896.52	5892896.74	0.0505	0.0355
Saturn	11431-04-20 22:48 G	5896256.21	5896256.45	5896256.71	0.0283	0.0141
Pluto	11443-08-31 15:36 G	5900771.85	5900772.15	5900772.46	0.0079	0.0016
Uranus	11455-12-16 10:33 G	5905261.63	5905261.94	5905262.27	0.0144	0.0028
Uranus	11457-11-21 22:48 G	5905968.27	5905968.45	5905968.67	0.0145	0.0115
Saturn	11475-08-25 17:45 G	5912454.19	5912454.24	5912454.31	0.0276	0.0269
Jupiter	11475-10-14 03:50 G	5912503.40	5912503.66	5912503.91	0.0521	0.0110
Neptune	11484-03-04 05:16 G	5915567.54	5915567.72	5915567.96	0.0089	0.0069
Neptune	11486-01-29 04:04 G	5916263.37	5916263.67	5916264.01	0.0088	0.0029
Uranus	11494-07-29 01:55 G	5919366.46	5919366.58	5919366.76	0.0135	0.0116
Uranus	11496-06-27 22:04 G	5920066.14	5920066.42	5920066.72	0.0134	0.0018
Uranus	11498-05-28 09:07 G	5920765.65	5920765.88	5920766.12	0.0134	0.0077
Saturn	11519-09-15 17:02 G	5928544.93	5928545.21	5928545.50	0.0283	0.0073
Saturn	11533-12-02 03:36 G	5933736.59	5933736.65	5933736.73	0.0276	0.0267
Uranus	11538-09-07 00:00 G	5935476.29	5935476.50	5935476.72	0.0144	0.0106
Jupiter	11540-07-27 17:16 G	5936165.97	5936166.22	5936166.49	0.0507	0.0229
Uranus	11540-08-13 01:55 G	5936182.26	5936182.58	5936182.90	0.0145	0.0032
Neptune	11567-12-21 03:50 G	5946173.42	5946173.66	5946173.95	0.0089	0.0040
Neptune	11569-11-14 00:00 G	5946867.27	5946867.50	5946867.77	0.0089	0.0046
Uranus	11579-03-24 18:14 G	5950285.03	5950285.26	5950285.52	0.0134	0.0072
Uranus	11581-02-21 11:02 G	5950984.68	5950984.96	5950985.25	0.0134	0.0025
Uranus	11583-01-21 20:23 G	5951684.23	5951684.35	5951684.50	0.0133	0.0118
Pluto	11602-06-23 18:14 G	5958776.98	5958777.26	5958777.58	0.0066	0.0024
Saturn	11608-02-09 21:21 G	5960834.09	5960834.39	5960834.68	0.0283	0.0007
Saturn	11622-04-28 21:21 G	5966026.16	5966026.39	5966026.63	0.0276	0.0162
Uranus	11623-05-04 08:23 G	5966396.56	5966396.85	5966397.17	0.0144	0.0050
Uranus	11625-04-09 13:40 G	5967102.83	5967103.07	5967103.35	0.0145	0.0091
Jupiter	11630-01-07 12:43 G	5968836.77	5968837.03	5968837.28	0.0521	0.0048
Neptune	11649-09-12 13:55 G	5976024.76	5976025.08	5976025.42	0.0089	0.0018
Neptune	11651-08-09 12:43 G	5976720.90	5976721.03	5976721.19	0.0088	0.0080

Uranus	11661-12-17 07:40 G	5980503.76	5980503.82	5980503.94	0.0135	0.0128
Uranus	11663-11-17 08:09 G	5981203.56	5981203.84	5981204.13	0.0134	0.0029
Uranus	11665-10-16 23:31 G	5981903.23	5981903.48	5981903.73	0.0134	0.0066
Pluto	11690-01-22 01:40 G	5990766.31	5990766.57	5990766.88	0.0079	0.0031
Jupiter	11694-10-22 00:57 G	5992500.25	5992500.54	5992500.83	0.0507	0.0017
Saturn	11696-07-05 06:57 G	5993122.51	5993122.79	5993123.08	0.0283	0.0060
Uranus	11706-01-24 01:40 G	5996611.44	5996611.57	5996611.74	0.0144	0.0126
Uranus	11707-12-30 20:09 G	5997317.02	5997317.34	5997317.67	0.0144	0.0010
Saturn	11710-09-23 02:09 G	5998314.34	5998314.59	5998314.86	0.0276	0.0127
Neptune	11731-08-06 04:48 G	6005936.61	6005936.70	6005936.86	0.0089	0.0081
Neptune	11733-06-30 02:52 G	6006630.33	6006630.62	6006630.92	0.0089	0.0005
Uranus	11746-08-13 00:00 G	6011422.29	6011422.50	6011422.75	0.0135	0.0084
Jupiter	11748-06-29 16:48 G	6012109.08	6012109.20	6012109.31	0.0519	0.0463
Uranus	11748-07-12 21:36 G	6012122.11	6012122.40	6012122.69	0.0134	0.0014
Uranus	11750-06-12 11:02 G	6012821.80	6012821.96	6012822.14	0.0134	0.0108
Jupiter	11784-04-03 23:45 G	6025171.28	6025171.49	6025171.71	0.0522	0.0288
Saturn	11784-11-29 11:16 G	6025410.70	6025410.97	6025411.25	0.0283	0.0102
Uranus	11790-09-20 07:40 G	6027531.56	6027531.82	6027532.13	0.0144	0.0070
Uranus	11792-08-26 06:14 G	6028237.50	6028237.76	6028238.07	0.0144	0.0070
Saturn	11799-02-17 01:40 G	6030603.28	6030603.57	6030603.86	0.0277	0.0049
Neptune	11813-04-28 00:14 G	6035786.31	6035786.51	6035786.78	0.0089	0.0064
Neptune	11815-03-24 21:36 G	6036482.11	6036482.40	6036482.73	0.0089	0.0034
Uranus	11831-04-08 13:26 G	6042340.78	6042341.06	6042341.34	0.0134	0.0041
Uranus	11833-03-08 08:38 G	6043040.61	6043040.86	6043041.14	0.0134	0.0056
Pluto	11848-11-15 06:14 G	6048771.44	6048771.76	6048772.08	0.0066	0.0001
Jupiter	11849-01-17 08:23 G	6048834.61	6048834.85	6048835.10	0.0507	0.0267
Saturn	11873-04-25 22:33 G	6057699.20	6057699.44	6057699.69	0.0282	0.0154
Uranus	11875-05-18 16:48 G	6058451.88	6058452.20	6058452.53	0.0144	0.0011
Uranus	11877-04-23 19:40 G	6059158.20	6059158.32	6059158.49	0.0145	0.0130
Saturn	11887-07-13 19:55 G	6062891.04	6062891.33	6062891.62	0.0277	0.0033

Neptune	11897-02-13 05:16 G	6066393.46	6066393.72	6066394.01	0.0089	0.0035
Neptune	11899-01-08 02:38 G	6067087.39	6067087.61	6067087.87	0.0089	0.0050
Jupiter	11902-09-26 07:55 G	6068443.60	6068443.83	6068444.07	0.0520	0.0211
Uranus	11914-01-02 01:26 G	6072559.38	6072559.56	6072559.79	0.0135	0.0097
Uranus	11915-12-03 04:33 G	6073259.40	6073259.69	6073259.98	0.0134	0.0002
Uranus	11917-11-01 20:23 G	6073959.18	6073959.35	6073959.57	0.0134	0.0098
Pluto	11936-06-16 19:26 G	6080761.23	6080761.31	6080761.45	0.0078	0.0074
Jupiter	11938-07-01 00:28 G	6081505.45	6081505.52	6081505.61	0.0522	0.0495
Uranus	11958-02-07 09:36 G	6088666.67	6088666.90	6088667.17	0.0144	0.0090
Uranus	11960-01-14 01:11 G	6089372.26	6089372.55	6089372.88	0.0144	0.0047
Saturn	11961-09-19 20:23 G	6089987.14	6089987.35	6089987.58	0.0282	0.0186
Jupiter	11967-07-08 20:38 G	6092105.13	6092105.36	6092105.61	0.0509	0.0278
Saturn	11975-12-08 08:23 G	6095179.56	6095179.85	6095180.15	0.0277	0.0023
Neptune	11978-11-06 09:50 G	6096243.58	6096243.91	6096244.24	0.0089	0.0012
Neptune	11980-10-02 06:43 G	6096939.73	6096939.78	6096939.91	0.0089	0.0086
Uranus	11998-08-27 16:19 G	6103477.93	6103478.18	6103478.46	0.0135	0.0055
Uranus	12000-07-27 15:21 G	6104177.87	6104178.14	6104178.42	0.0134	0.0043s

13TH MILLENNIUM CE

This is a list of transits of Mars in the 13th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	12042-10-04 14:52 G	6119586.81	6119587.12	6119587.44	0.0144	0.0033		
Uranus	12044-09-09 11:16 G	6120292.77	6120292.97	6120293.22	0.0144	0.0106		

Saturn	12050-02-14 00:57 G	6122276.46	6122276.54	6122276.66	0.0281	0.0264
Jupiter	12056-12-20 05:45 G	6124777.48	6124777.74	6124778.00	0.0519	0.0010
Neptune	12060-09-29 08:38 G	6126156.72	6126156.86	6126157.05	0.0089	0.0074
Neptune	12062-08-24 06:57 G	6126850.50	6126850.79	6126851.09	0.0089	0.0011
Saturn	12064-05-02 12:57 G	6127467.76	6127468.04	6127468.34	0.0277	0.0059
Uranus	12081-05-22 00:57 G	6133696.38	6133696.54	6133696.71	0.0135	0.0112
Uranus	12083-04-22 06:57 G	6134396.50	6134396.79	6134397.09	0.0135	0.0012
Uranus	12085-03-22 01:40 G	6135096.35	6135096.57	6135096.80	0.0134	0.0085
Pluto	12095-04-08 22:48 G	6138766.23	6138766.45	6138766.72	0.0066	0.0041
Jupiter	12121-10-03 00:57 G	6148439.25	6148439.54	6148439.83	0.0509	0.0032
Uranus	12125-06-26 12:28 G	6149801.84	6149802.02	6149802.25	0.0143	0.0110
Uranus	12127-06-01 21:07 G	6150507.06	6150507.38	6150507.70	0.0144	0.0023
Neptune	12142-06-20 23:31 G	6156005.24	6156005.48	6156005.76	0.0089	0.0056
Neptune	12144-05-16 19:40 G	6156701.05	6156701.32	6156701.64	0.0089	0.0041
Saturn	12152-09-27 06:14 G	6159756.50	6159756.76	6159757.03	0.0278	0.0116
Uranus	12166-01-15 14:09 G	6164614.85	6164615.09	6164615.36	0.0135	0.0069
Uranus	12167-12-16 16:33 G	6165314.91	6165315.19	6165315.48	0.0134	0.0030
Uranus	12169-11-15 09:50 G	6166014.83	6166014.91	6166015.05	0.0134	0.0124
Saturn	12196-10-16 04:33 G	6175846.60	6175846.69	6175846.80	0.0281	0.0263
Uranus	12210-02-21 13:55 G	6180721.80	6180722.08	6180722.39	0.0143	0.0055
Jupiter	12211-03-18 08:52 G	6181111.64	6181111.87	6181112.11	0.0519	0.0214
Uranus	12212-01-28 02:52 G	6181427.35	6181427.62	6181427.89	0.0144	0.0081
Neptune	12226-04-10 12:14 G	6186613.74	6186614.01	6186614.31	0.0089	0.0027
Neptune	12228-03-04 09:07 G	6187307.68	6187307.88	6187308.12	0.0089	0.0058
Saturn	12241-02-22 12:00 G	6192045.80	6192046.00	6192046.22	0.0277	0.0197
Uranus	12248-10-10 18:14 G	6194833.18	6194833.26	6194833.38	0.0135	0.0127
Uranus	12250-09-11 03:50 G	6195533.38	6195533.66	6195533.96	0.0135	0.0026
Uranus	12252-08-11 03:21 G	6196233.40	6196233.64	6196233.90	0.0134	0.0072
Jupiter	12275-12-28 06:43 G	6204772.50	6204772.78	6204773.06	0.0509	0.0152
Saturn	12285-03-14 03:50 G	6208136.43	6208136.66	6208136.91	0.0281	0.0157

Uranus	12292-11-12 14:52 G	6210937.00	6210937.12	6210937.28	0.0143	0.0129
Uranus	12294-10-18 15:50 G	6211641.84	6211642.16	6211642.48	0.0144	0.0001
Uranus	12296-09-23 09:07 G	6212347.80	6212347.88	6212347.98	0.0144	0.0139
Neptune	12307-12-31 10:48 G	6216462.62	6216462.95	6216463.29	0.0089	0.0004
Saturn	12329-07-20 11:45 G	6224334.90	6224334.99	6224335.08	0.0277	0.0264
Jupiter	12329-09-07 03:36 G	6224383.45	6224383.65	6224383.86	0.0517	0.0317
Uranus	12333-06-06 06:00 G	6225751.53	6225751.75	6225751.99	0.0135	0.0084
Uranus	12335-05-07 13:11 G	6226451.76	6226452.05	6226452.34	0.0135	0.0016
Uranus	12337-04-06 10:33 G	6227151.80	6227151.94	6227152.12	0.0134	0.0112
Jupiter	12365-06-11 16:19 G	6237445.01	6237445.18	6237445.37	0.0520	0.0377
Saturn	12373-08-09 00:43 G	6240425.26	6240425.53	6240425.81	0.0281	0.0087
Uranus	12377-07-10 12:28 G	6241856.76	6241857.02	6241857.31	0.0143	0.0075
Uranus	12379-06-15 17:45 G	6242561.95	6242562.24	6242562.54	0.0144	0.0058
Neptune	12389-11-24 17:31 G	6246377.04	6246377.23	6246377.46	0.0089	0.0064
Neptune	12391-10-19 17:45 G	6247070.95	6247071.24	6247071.52	0.0089	0.0021
Jupiter	12394-06-17 00:14 G	6248042.39	6248042.51	6248042.65	0.0512	0.0452
Uranus	12418-01-29 18:57 G	6256670.01	6256670.29	6256670.57	0.0135	0.0040
Uranus	12419-12-30 23:45 G	6257370.23	6257370.49	6257370.76	0.0135	0.0058
Jupiter	12430-03-24 01:26 G	6261106.37	6261106.56	6261106.76	0.0509	0.0373
Saturn	12462-01-03 13:26 G	6272714.77	6272715.06	6272715.35	0.0281	0.0006
Uranus	12462-03-06 11:02 G	6272776.64	6272776.96	6272777.28	0.0143	0.0020
Uranus	12464-02-09 21:36 G	6273482.23	6273482.40	6273482.61	0.0144	0.0116
Neptune	12471-08-14 06:28 G	6276224.49	6276224.77	6276225.06	0.0089	0.0045
Neptune	12473-07-10 00:00 G	6276920.26	6276920.50	6276920.81	0.0089	0.0051
Saturn	12476-03-22 06:28 G	6277906.54	6277906.77	6277907.00	0.0278	0.0175
Jupiter	12483-12-01 08:52 G	6280716.63	6280716.87	6280717.12	0.0517	0.0165
Uranus	12500-10-24 17:02 G	6286888.04	6286888.21	6286888.44	0.0136	0.0101
Uranus	12502-09-25 06:14 G	6287588.46	6287588.76	6287589.05	0.0135	0.0002
Uranus	12504-08-25 06:57 G	6288288.62	6288288.79	6288289.01	0.0134	0.0099
Uranus	12544-11-26 11:31 G	6302991.75	6302991.98	6302992.22	0.0143	0.0096

Uranus	12546-11-01 09:50 G	6303696.61	6303696.91	6303697.23	0.0143	0.0036
Jupiter	12548-09-11 00:57 G	6304376.28	6304376.54	6304376.80	0.0511	0.0218
Saturn	12550-05-31 05:45 G	6305003.46	6305003.74	6305004.02	0.0281	0.0069
Neptune	12555-06-04 22:48 G	6306834.17	6306834.45	6306834.76	0.0089	0.0016
Neptune	12557-04-28 22:04 G	6307528.25	6307528.42	6307528.62	0.0089	0.0069
Saturn	12564-08-16 18:14 G	6310194.99	6310195.26	6310195.52	0.0278	0.0126
Uranus	12585-06-19 07:26 G	6317806.56	6317806.81	6317807.09	0.0135	0.0058
Uranus	12587-05-20 16:19 G	6318506.92	6318507.18	6318507.47	0.0135	0.0043
Uranus	12629-07-24 07:26 G	6333911.52	6333911.81	6333912.13	0.0143	0.0043
Uranus	12631-06-29 11:31 G	6334616.75	6334616.98	6334617.25	0.0144	0.0092
Neptune	12635-03-30 02:23 G	6335986.54	6335986.60	6335986.70	0.0089	0.0086
Neptune	12637-02-22 19:40 G	6336682.00	6336682.32	6336682.66	0.0089	0.0009
Jupiter	12638-02-26 13:11 G	6337050.79	6337051.05	6337051.31	0.0518	0.0064
Saturn	12638-10-25 17:45 G	6337291.98	6337292.24	6337292.50	0.0281	0.0124
Saturn	12653-01-12 00:43 G	6342484.24	6342484.53	6342484.83	0.0278	0.0035
Uranus	12668-03-14 01:40 G	6348024.43	6348024.57	6348024.72	0.0136	0.0118
Uranus	12670-02-12 18:43 G	6348724.98	6348725.28	6348725.57	0.0135	0.0016
Uranus	12672-01-13 23:31 G	6349425.27	6349425.48	6349425.73	0.0135	0.0084
Jupiter	12702-12-08 01:26 G	6360710.27	6360710.56	6360710.84	0.0511	0.0019
Uranus	12712-04-15 11:31 G	6364126.83	6364126.98	6364127.19	0.0143	0.0118
Uranus	12714-03-21 04:04 G	6364831.36	6364831.67	6364832.00	0.0143	0.0012
Neptune	12719-01-20 05:16 G	6366597.51	6366597.72	6366598.00	0.0089	0.0052
Neptune	12720-12-14 05:45 G	6367291.48	6367291.74	6367292.03	0.0089	0.0034
Saturn	12727-03-22 05:16 G	6369580.51	6369580.72	6369580.95	0.0280	0.0177
Saturn	12741-06-07 20:38 G	6374772.06	6374772.36	6374772.66	0.0278	0.0012
Uranus	12752-11-07 16:19 G	6378942.95	6378943.18	6378943.45	0.0136	0.0075
Uranus	12754-10-09 06:00 G	6379643.46	6379643.75	6379644.04	0.0135	0.0027
Jupiter	12756-08-18 16:04 G	6380323.04	6380323.17	6380323.30	0.0515	0.0445
Uranus	12756-09-08 07:55 G	6380343.75	6380343.83	6380343.97	0.0134	0.0125
Jupiter	12792-05-23 11:45 G	6393384.77	6393384.99	6393385.22	0.0518	0.0272

Uranus	12796-12-10 05:02 G	6395046.44	6395046.71	6395047.00	0.0143	0.0064
Uranus	12798-11-15 01:55 G	6395751.30	6395751.58	6395751.87	0.0143	0.0068
Neptune	12800-10-07 18:00 G	6396443.96	6396444.25	6396444.57	0.0089	0.0032
Neptune	12802-09-03 11:16 G	6397139.77	6397139.97	6397140.23	0.0089	0.0064
Saturn	12815-08-15 03:07 G	6401868.44	6401868.63	6401868.83	0.0281	0.0208
Saturn	12829-11-01 09:36 G	6407060.61	6407060.90	6407061.20	0.0279	0.0046
Uranus	12835-08-02 05:31 G	6409160.73	6409160.73	6409160.76	0.0136	0.0136
Uranus	12837-07-03 03:07 G	6409861.35	6409861.63	6409861.93	0.0135	0.0032
Uranus	12839-06-03 13:11 G	6410561.81	6410562.05	6410562.32	0.0135	0.0069
Jupiter	12857-03-03 17:31 G	6417045.01	6417045.23	6417045.47	0.0511	0.0303
Uranus	12879-09-01 13:11 G	6425261.97	6425262.05	6425262.14	0.0142	0.0137
Uranus	12881-08-05 22:04 G	6425966.11	6425966.42	6425966.74	0.0143	0.0010
Neptune	12882-09-04 12:43 G	6426360.99	6426361.03	6426361.10	0.0089	0.0087
Uranus	12883-07-11 22:48 G	6426671.32	6426671.45	6426671.64	0.0144	0.0125
Neptune	12884-07-29 14:09 G	6427054.79	6427055.09	6427055.39	0.0089	0.0002
Neptune	12886-06-23 12:14 G	6427748.94	6427749.01	6427749.15	0.0089	0.0083
Saturn	12904-01-10 00:43 G	6434157.47	6434157.53	6434157.61	0.0280	0.0271
Jupiter	12910-11-13 16:19 G	6436656.95	6436657.18	6436657.42	0.0515	0.0229
Saturn	12918-03-28 06:00 G	6439348.47	6439348.75	6439349.05	0.0279	0.0070
Uranus	12920-03-27 19:55 G	6440079.11	6440079.33	6440079.56	0.0136	0.0091
Uranus	12922-02-26 14:09 G	6440779.80	6440780.09	6440780.39	0.0135	0.0012
Uranus	12924-01-27 21:50 G	6441480.27	6441480.41	6441480.60	0.0135	0.0111
Uranus	12964-04-28 02:52 G	6456181.38	6456181.62	6456181.88	0.0142	0.0085
Neptune	12964-05-22 19:40 G	6456206.14	6456206.32	6456206.53	0.0089	0.0071
Uranus	12966-04-02 15:50 G	6456885.86	6456886.16	6456886.47	0.0143	0.0045
Neptune	12966-04-18 10:33 G	6456901.64	6456901.94	6456902.28	0.0089	0.0024
Jupiter	12975-08-23 03:36 G	6460315.41	6460315.65	6460315.90	0.0514	0.0269

14TH MILLENNIUM CE

This is a list of transits of Mars in the 14th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	13004-11-21 08:23	G	6470997.57	6470997.85	6470998.13	0.0136	0.0048	
Saturn	13006-08-22 16:19	G	6471636.91	6471637.18	6471637.45	0.0279	0.0117	
Uranus	13006-10-23 00:14	G	6471698.25	6471698.51	6471698.79	0.0135	0.0054	
Neptune	13048-03-15 21:36	G	6486818.14	6486818.40	6486818.69	0.0089	0.0037	
Uranus	13048-12-23 16:48	G	6487100.89	6487101.20	6487101.51	0.0143	0.0032	
Neptune	13050-02-07 22:33	G	6487512.21	6487512.44	6487512.71	0.0089	0.0048	
Saturn	13050-09-11 07:40	G	6487727.72	6487727.82	6487727.96	0.0279	0.0253	
Uranus	13050-11-28 10:33	G	6487805.73	6487805.94	6487806.19	0.0143	0.0101	
Jupiter	13065-02-07 23:16	G	6492991.20	6492991.47	6492991.73	0.0515	0.0016	
Pluto	13078-12-20 12:43	G	6498054.72	6498055.03	6498055.35	0.0066	0.0005	
Uranus	13087-08-15 20:52	G	6501215.22	6501215.37	6501215.57	0.0136	0.0110	
Uranus	13089-07-16 21:36	G	6501916.10	6501916.40	6501916.70	0.0135	0.0005	
Uranus	13091-06-17 09:36	G	6502616.72	6502616.90	6502617.13	0.0135	0.0096	
Saturn	13095-01-16 11:31	G	6503925.77	6503925.98	6503926.22	0.0279	0.0183	
Jupiter	13129-11-17 14:38	G	6516648.83	6516649.11	6516649.39	0.0514	0.0066	
Neptune	13129-12-02 12:57	G	6516663.72	6516664.04	6516664.37	0.0089	0.0016	
Uranus	13131-09-16 02:23	G	6517316.40	6517316.60	6517316.81	0.0142	0.0107	
Neptune	13131-10-29 03:50	G	6517359.54	6517359.66	6517359.84	0.0089	0.0079	
Uranus	13133-08-20 08:38	G	6518020.55	6518020.86	6518021.18	0.0143	0.0022	
Saturn	13139-02-07 02:38	G	6520017.37	6520017.61	6520017.85	0.0279	0.0155	
Pluto	13166-07-22 00:57	G	6530044.26	6530044.54	6530044.84	0.0079	0.0030	
Uranus	13172-04-10 12:00	G	6532133.74	6532134.00	6532134.27	0.0136	0.0066	

Uranus	13174-03-12 08:38 G	6532834.58	6532834.86	6532835.15	0.0135	0.0037
Saturn	13183-06-13 06:57 G	6536214.66	6536214.79	6536214.95	0.0279	0.0245
Jupiter	13183-07-31 17:45 G	6536263.24	6536263.24	6536263.27	0.0513	0.0512
Neptune	13211-10-31 04:19 G	6546581.54	6546581.68	6546581.89	0.0089	0.0072
Neptune	13213-09-24 07:11 G	6547275.52	6547275.80	6547276.11	0.0089	0.0014
Uranus	13216-05-11 14:23 G	6548235.83	6548236.10	6548236.41	0.0143	0.0056
Uranus	13218-04-16 01:26 G	6548940.31	6548940.56	6548940.85	0.0143	0.0076
Jupiter	13219-05-05 10:48 G	6549324.71	6549324.95	6549325.20	0.0516	0.0194
Saturn	13227-07-03 22:48 G	6552306.18	6552306.45	6552306.72	0.0279	0.0088
Uranus	13255-01-02 20:38 G	6562351.29	6562351.36	6562351.48	0.0136	0.0129
Uranus	13256-12-04 03:07 G	6563052.34	6563052.63	6563052.93	0.0136	0.0023
Uranus	13258-11-04 19:26 G	6563753.08	6563753.31	6563753.56	0.0135	0.0079
Jupiter	13284-02-11 10:48 G	6572982.68	6572982.95	6572983.22	0.0513	0.0161
Neptune	13293-07-16 16:19 G	6576425.96	6576426.18	6576426.47	0.0089	0.0055
Neptune	13295-06-12 07:12 G	6577121.52	6577121.80	6577122.11	0.0089	0.0040
Uranus	13299-02-01 05:02 G	6578451.60	6578451.71	6578451.87	0.0142	0.0128
Uranus	13301-01-06 04:33 G	6579155.37	6579155.69	6579156.01	0.0143	0.0002
Uranus	13302-12-11 19:40 G	6579860.21	6579860.32	6579860.48	0.0143	0.0130
Saturn	13315-11-29 15:36 G	6584595.87	6584596.15	6584596.44	0.0280	0.0011
Saturn	13330-02-13 11:31 G	6589785.80	6589785.98	6589786.19	0.0280	0.0214
Jupiter	13337-10-24 23:45 G	6592596.30	6592596.49	6592596.69	0.0513	0.0354
Uranus	13339-08-29 14:09 G	6593269.87	6593270.09	6593270.34	0.0136	0.0084
Uranus	13341-07-30 14:52 G	6593970.83	6593971.12	6593971.42	0.0135	0.0021
Uranus	13343-07-01 03:36 G	6594671.53	6594671.65	6594671.79	0.0135	0.0120
Jupiter	13373-07-30 06:14 G	6605658.60	6605658.76	6605658.93	0.0516	0.0402
Neptune	13377-05-10 15:36 G	6607038.86	6607039.15	6607039.44	0.0089	0.0021
Neptune	13379-04-04 16:19 G	6607733.00	6607733.18	6607733.42	0.0089	0.0064
Uranus	13383-09-28 14:24 G	6609370.86	6609371.10	6609371.38	0.0142	0.0078
Uranus	13385-09-01 18:57 G	6610075.00	6610075.29	6610075.60	0.0143	0.0051
Jupiter	13402-08-02 11:31 G	6616252.85	6616252.98	6616253.11	0.0516	0.0454

Saturn	13404-04-25 13:12 G	6616884.79	6616885.05	6616885.34	0.0279	0.0080
Saturn	13418-07-11 06:28 G	6622074.52	6622074.77	6622075.03	0.0279	0.0153
Uranus	13424-04-24 05:02 G	6624188.44	6624188.71	6624189.02	0.0136	0.0040
Uranus	13426-03-26 02:24 G	6624889.34	6624889.60	6624889.86	0.0135	0.0064
Jupiter	13438-05-08 17:45 G	6629316.04	6629316.24	6629316.45	0.0513	0.0352
Neptune	13459-01-26 10:48 G	6636883.62	6636883.95	6636884.28	0.0089	0.0001
Uranus	13468-05-25 01:26 G	6640290.26	6640290.56	6640290.88	0.0143	0.0026
Uranus	13470-04-29 09:21 G	6640994.69	6640994.89	6640995.12	0.0143	0.0105
Jupiter	13492-01-19 23:16 G	6648930.22	6648930.47	6648930.73	0.0513	0.0137
Saturn	13492-09-19 11:16 G	6649173.73	6649173.97	6649174.22	0.0280	0.0149
Saturn	13506-12-06 23:16 G	6654364.17	6654364.47	6654364.77	0.0280	0.0044
Uranus	13507-01-17 12:14 G	6654405.82	6654406.01	6654406.22	0.0136	0.0102
Uranus	13508-12-18 18:28 G	6655106.97	6655107.27	6655107.57	0.0136	0.0004
Uranus	13510-11-19 13:12 G	6655807.88	6655808.05	6655808.25	0.0135	0.0105
Neptune	13540-12-25 22:33 G	6666802.23	6666802.44	6666802.70	0.0089	0.0056
Neptune	13542-11-20 02:38 G	6667496.35	6667496.61	6667496.91	0.0089	0.0030
Uranus	13551-02-15 16:33 G	6670505.99	6670506.19	6670506.43	0.0142	0.0099
Uranus	13553-01-19 13:12 G	6671209.74	6671210.05	6671210.36	0.0143	0.0027
Jupiter	13556-10-27 05:16 G	6672586.47	6672586.72	6672586.97	0.0516	0.0236
Saturn	13581-02-14 03:50 G	6681462.48	6681462.66	6681462.86	0.0279	0.0206
Uranus	13591-09-12 05:45 G	6685324.47	6685324.74	6685325.02	0.0136	0.0057
Uranus	13593-08-13 08:38 G	6686025.59	6686025.86	6686026.15	0.0135	0.0048
Saturn	13595-05-02 00:28 G	6686652.22	6686652.52	6686652.82	0.0280	0.0012
Neptune	13622-09-10 17:31 G	6696645.95	6696646.23	6696646.54	0.0089	0.0037
Neptune	13624-08-06 05:45 G	6697341.50	6697341.74	6697342.00	0.0089	0.0056
Uranus	13635-10-12 00:28 G	6701425.24	6701425.52	6701425.82	0.0142	0.0049
Uranus	13637-09-15 02:09 G	6702129.35	6702129.59	6702129.87	0.0143	0.0081
Jupiter	13646-04-15 19:12 G	6705264.04	6705264.30	6705264.57	0.0513	0.0066
Saturn	13669-07-10 06:28 G	6713750.65	6713750.77	6713750.92	0.0279	0.0245
Uranus	13674-06-05 09:36 G	6715541.78	6715541.90	6715542.05	0.0137	0.0122

Uranus	13676-05-06 22:04 G	6716243.12	6716243.42	6716243.72	0.0136	0.0014
Uranus	13678-04-07 21:21 G	6716944.17	6716944.39	6716944.62	0.0135	0.0090
Saturn	13683-09-25 19:12 G	6718941.01	6718941.30	6718941.60	0.0280	0.0055
Neptune	13706-07-06 09:21 G	6727259.59	6727259.89	6727260.20	0.0089	0.0005
Neptune	13708-05-30 12:00 G	6727953.91	6727954.00	6727954.17	0.0089	0.0080
Jupiter	13711-01-22 21:36 G	6728921.12	6728921.40	6728921.68	0.0515	0.0051
Uranus	13718-07-04 21:50 G	6731641.27	6731641.41	6731641.59	0.0142	0.0122
Uranus	13720-06-07 11:31 G	6732344.67	6732344.98	6732345.29	0.0143	0.0003
Uranus	13722-05-12 18:43 G	6733049.20	6733049.28	6733049.40	0.0143	0.0135
Uranus	13759-01-30 05:16 G	6746460.49	6746460.72	6746460.99	0.0136	0.0077
Uranus	13760-12-31 14:09 G	6747161.79	6747162.09	6747162.38	0.0136	0.0030
Uranus	13762-12-02 09:07 G	6747862.85	6747862.88	6747862.97	0.0135	0.0132
Jupiter	13764-10-05 21:36 G	6748536.27	6748536.40	6748536.54	0.0511	0.0438
Saturn	13772-02-19 12:00 G	6751228.71	6751229.00	6751229.29	0.0280	0.0076
Neptune	13786-04-25 23:45 G	6756408.32	6756408.49	6756408.67	0.0089	0.0074
Neptune	13788-03-21 10:48 G	6757103.63	6757103.95	6757104.27	0.0089	0.0018
Jupiter	13800-07-12 06:00 G	6761598.54	6761598.75	6761598.96	0.0513	0.0320
Uranus	13803-03-01 04:48 G	6762560.44	6762560.70	6762560.97	0.0142	0.0071
Uranus	13805-02-02 00:00 G	6763264.23	6763264.50	6763264.81	0.0143	0.0057
Saturn	13816-03-13 11:45 G	6767321.88	6767321.99	6767322.11	0.0278	0.0253
Pluto	13816-04-10 15:07 G	6767349.86	6767350.13	6767350.43	0.0065	0.0028
Uranus	13843-09-26 00:57 G	6777379.26	6777379.54	6777379.85	0.0136	0.0032
Uranus	13845-08-27 04:48 G	6778080.46	6778080.70	6778080.96	0.0135	0.0074
Saturn	13860-07-15 18:28 G	6783517.00	6783517.27	6783517.55	0.0281	0.0119
Jupiter	13865-04-18 22:19 G	6785255.21	6785255.43	6785255.67	0.0516	0.0297
Neptune	13870-02-19 14:24 G	6787022.85	6787023.10	6787023.40	0.0089	0.0040
Neptune	13872-01-14 18:57 G	6787717.06	6787717.29	6787717.57	0.0089	0.0046
Uranus	13887-10-25 14:09 G	6793479.79	6793480.09	6793480.40	0.0142	0.0020
Uranus	13889-09-28 14:24 G	6794183.93	6794184.10	6794184.32	0.0143	0.0111
Pluto	13903-11-10 17:16 G	6799338.93	6799339.22	6799339.52	0.0079	0.0027

Saturn	13904-08-07 13:26 G	6799609.89	6799610.06	6799610.23	0.0278	0.0219
Jupiter	13919-01-02 08:52 G	6804870.62	6804870.87	6804871.12	0.0511	0.0178
Uranus	13926-06-20 04:33 G	6807596.50	6807596.69	6807596.93	0.0136	0.0096
Uranus	13928-05-21 18:28 G	6808297.97	6808298.27	6808298.57	0.0136	0.0014
Uranus	13930-04-22 18:28 G	6808999.13	6808999.27	6808999.43	0.0135	0.0117
Saturn	13948-12-10 03:36 G	6815805.43	6815805.65	6815805.91	0.0281	0.0169
Neptune	13951-11-05 15:36 G	6816865.84	6816866.15	6816866.47	0.0089	0.0020
Neptune	13953-10-01 02:52 G	6817561.46	6817561.62	6817561.83	0.0089	0.0073
Uranus	13970-07-18 12:28 G	6823695.79	6823696.02	6823696.26	0.0142	0.0092
Uranus	13972-06-21 00:57 G	6824399.25	6824399.54	6824399.85	0.0143	0.0034
Jupiter	13983-10-08 08:52 G	6828525.65	6828525.87	6828526.11	0.0518	0.0301
Saturn	13993-01-02 01:26 G	6831899.31	6831899.56	6831899.81	0.0278	0.0135

15TH MILLENNIUM CE

This is a list of transits of Mars in the 15th millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Uranus	14011-02-13 01:26 G	6838515.28	6838515.56	6838515.85	0.0136	0.0049			
Uranus	14013-01-14 10:33 G	6839216.67	6839216.94	6839217.22	0.0135	0.0059			
Neptune	14033-10-05 18:28 G	6846786.14	6846786.27	6846786.46	0.0089	0.0075			
Neptune	14035-08-31 00:28 G	6847480.23	6847480.52	6847480.83	0.0089	0.0011			
Saturn	14037-05-05 16:04 G	6848094.00	6848094.17	6848094.37	0.0281	0.0220			
Uranus	14055-03-13 18:57 G	6854614.99	6854615.29	6854615.58	0.0142	0.0042			
Uranus	14057-02-14 11:16 G	6855318.74	6855318.97	6855319.24	0.0143	0.0088			

Jupiter	14073-03-28 02:09 G	6861204.32	6861204.59	6861204.86	0.0511	0.0027
Saturn	14081-05-28 17:16 G	6864187.96	6864188.22	6864188.50	0.0278	0.0079
Uranus	14093-11-06 02:09 G	6868732.43	6868732.59	6868732.78	0.0137	0.0113
Uranus	14095-10-08 21:36 G	6869434.10	6869434.40	6869434.71	0.0136	0.0002
Uranus	14097-09-09 03:21 G	6870135.46	6870135.64	6870135.84	0.0135	0.0104
Neptune	14115-06-20 21:50 G	6876628.19	6876628.41	6876628.68	0.0089	0.0058
Neptune	14117-05-16 06:57 G	6877323.50	6877323.79	6877324.10	0.0089	0.0034
Uranus	14137-12-04 21:07 G	6884831.23	6884831.38	6884831.59	0.0142	0.0114
Jupiter	14138-01-02 09:07 G	6884859.60	6884859.88	6884860.16	0.0518	0.0057
Uranus	14139-11-08 02:38 G	6885534.30	6885534.61	6885534.92	0.0142	0.0011
Uranus	14141-10-12 00:43 G	6886238.51	6886238.53	6886238.55	0.0143	0.0143
Saturn	14169-10-24 10:33 G	6896477.65	6896477.94	6896478.22	0.0278	0.0020
Uranus	14178-07-03 01:26 G	6899651.29	6899651.56	6899651.83	0.0136	0.0066
Uranus	14180-06-03 16:33 G	6900352.91	6900353.19	6900353.49	0.0136	0.0044
Saturn	14184-01-05 18:57 G	6901664.23	6901664.29	6901664.35	0.0281	0.0275
Neptune	14199-04-16 03:21 G	6907243.36	6907243.64	6907243.94	0.0089	0.0025
Neptune	14201-03-11 08:38 G	6907937.65	6907937.86	6907938.10	0.0089	0.0060
Uranus	14222-08-01 01:40 G	6915750.31	6915750.57	6915750.86	0.0142	0.0064
Uranus	14224-07-04 12:00 G	6916453.73	6916454.00	6916454.28	0.0143	0.0064
Jupiter	14227-06-23 21:21 G	6917538.16	6917538.39	6917538.63	0.0511	0.0242
Saturn	14258-03-21 09:50 G	6928766.66	6928766.91	6928767.19	0.0278	0.0091
Uranus	14261-03-26 22:33 G	6929868.38	6929868.44	6929868.55	0.0137	0.0132
Uranus	14263-02-27 00:00 G	6930570.21	6930570.50	6930570.82	0.0136	0.0020
Uranus	14265-01-28 11:45 G	6931271.77	6931271.99	6931272.23	0.0135	0.0089
Saturn	14272-06-01 16:48 G	6933953.00	6933953.20	6933953.41	0.0281	0.0207
Neptune	14280-12-29 11:02 G	6937085.64	6937085.96	6937086.29	0.0089	0.0005
Neptune	14282-11-24 19:26 G	6937781.29	6937781.31	6937781.40	0.0089	0.0088
Jupiter	14292-03-28 11:45 G	6941192.73	6941192.99	6941193.27	0.0517	0.0125
Uranus	14305-04-24 11:02 G	6945966.89	6945966.96	6945967.07	0.0141	0.0134
Uranus	14307-03-28 09:21 G	6946669.59	6946669.89	6946670.20	0.0142	0.0012

Uranus	14309-03-01 00:28 G	6947373.36	6947373.52	6947373.71	0.0143	0.0118
Uranus	14345-11-21 01:26 G	6960787.33	6960787.56	6960787.82	0.0137	0.0084
Jupiter	14345-12-13 07:12 G	6960809.59	6960809.80	6960810.02	0.0509	0.0311
Saturn	14346-08-16 14:52 G	6961055.91	6961056.12	6961056.35	0.0278	0.0173
Uranus	14347-10-23 23:16 G	6961489.18	6961489.47	6961489.78	0.0136	0.0028
Uranus	14349-09-24 05:16 G	6962190.69	6962190.72	6962190.79	0.0135	0.0133
Saturn	14360-10-28 18:28 G	6966242.98	6966243.27	6966243.56	0.0281	0.0083
Neptune	14362-12-01 02:24 G	6967006.41	6967006.60	6967006.86	0.0089	0.0061
Neptune	14364-10-25 10:33 G	6967700.66	6967700.94	6967701.25	0.0089	0.0025
Jupiter	14381-09-17 06:00 G	6973871.60	6973871.75	6973871.90	0.0512	0.0417
Uranus	14389-12-18 14:09 G	6976885.86	6976886.09	6976886.35	0.0142	0.0085
Uranus	14391-11-21 18:00 G	6977588.96	6977589.25	6977589.55	0.0142	0.0041
Jupiter	14410-09-16 22:33 G	6984463.36	6984463.44	6984463.54	0.0520	0.0491
Uranus	14430-07-17 04:19 G	6991706.38	6991706.68	6991706.98	0.0136	0.0035
Uranus	14432-06-17 19:55 G	6992408.10	6992408.33	6992408.60	0.0136	0.0075
Saturn	14435-01-10 12:00 G	6993344.86	6993345.00	6993345.15	0.0278	0.0236
Neptune	14444-08-13 15:21 G	6996847.87	6996848.14	6996848.44	0.0089	0.0043
Jupiter	14446-06-23 16:19 G	6997527.00	6997527.18	6997527.38	0.0517	0.0381
Neptune	14446-07-09 23:45 G	6997543.22	6997543.49	6997543.76	0.0089	0.0048
Saturn	14449-03-24 02:52 G	6998531.32	6998531.62	6998531.93	0.0281	0.0036
Uranus	14474-08-13 21:36 G	7007805.11	7007805.40	7007805.71	0.0142	0.0033
Uranus	14476-07-17 06:28 G	7008508.54	7008508.77	7008509.00	0.0143	0.0095
Jupiter	14500-03-08 20:24 G	7017143.09	7017143.35	7017143.62	0.0509	0.0120
Uranus	14513-04-10 01:40 G	7021923.37	7021923.57	7021923.79	0.0137	0.0100
Uranus	14515-03-13 04:19 G	7022625.37	7022625.68	7022625.99	0.0136	0.0013
Uranus	14517-02-11 14:52 G	7023327.01	7023327.12	7023327.29	0.0135	0.0121
Neptune	14528-06-10 08:38 G	7027463.57	7027463.86	7027464.18	0.0089	0.0012
Neptune	14530-05-05 15:07 G	7028157.98	7028158.13	7028158.33	0.0089	0.0073
Saturn	14537-08-19 06:28 G	7030820.47	7030820.77	7030821.07	0.0282	0.0049
Pluto	14553-07-31 12:28 G	7036645.71	7036646.02	7036646.34	0.0065	0.0003

Uranus	14557-05-07 06:57 G	7038021.59	7038021.79	7038022.00	0.0141	0.0104
Uranus	14559-04-10 03:50 G	7038724.36	7038724.66	7038724.97	0.0142	0.0020
Jupiter	14564-12-12 09:21 G	7040797.64	7040797.89	7040798.14	0.0520	0.0214
Saturn	14581-09-12 15:36 G	7046916.06	7046916.15	7046916.26	0.0277	0.0257
Uranus	14597-12-04 06:28 G	7052842.49	7052842.77	7052843.06	0.0137	0.0050
Uranus	14599-11-06 04:04 G	7053544.40	7053544.67	7053544.95	0.0136	0.0061
Neptune	14608-03-29 19:26 G	7056610.22	7056610.31	7056610.47	0.0089	0.0082
Neptune	14610-02-23 00:57 G	7057305.23	7057305.54	7057305.87	0.0089	0.0009
Saturn	14626-01-12 23:16 G	7063108.18	7063108.47	7063108.77	0.0282	0.0072
Pluto	14641-03-01 06:57 G	7068634.47	7068634.79	7068635.11	0.0079	0.0003
Uranus	14642-01-01 12:14 G	7068940.73	7068941.01	7068941.30	0.0142	0.0053
Uranus	14643-12-05 12:57 G	7069643.79	7069644.04	7069644.32	0.0142	0.0074
Jupiter	14654-06-04 03:50 G	7073477.40	7073477.66	7073477.92	0.0509	0.0133
Saturn	14670-02-07 13:12 G	7079204.86	7079205.05	7079205.25	0.0276	0.0197
Uranus	14680-08-28 01:26 G	7083059.41	7083059.56	7083059.73	0.0137	0.0117
Uranus	14682-07-31 09:07 G	7083761.57	7083761.88	7083762.19	0.0136	0.0001
Uranus	14684-07-02 02:24 G	7084463.43	7084463.60	7084463.80	0.0136	0.0108
Neptune	14692-01-25 05:02 G	7087226.48	7087226.71	7087226.99	0.0089	0.0049
Neptune	14693-12-19 13:55 G	7087920.81	7087921.08	7087921.37	0.0089	0.0037
Saturn	14714-06-09 04:33 G	7095396.41	7095396.69	7095396.97	0.0282	0.0114
Jupiter	14719-03-10 09:50 G	7097131.64	7097131.91	7097132.19	0.0520	0.0036
Uranus	14724-09-25 02:09 G	7099157.46	7099157.59	7099157.75	0.0141	0.0123
Uranus	14726-08-28 16:33 G	7099859.88	7099860.19	7099860.49	0.0142	0.0002
Uranus	14728-07-31 22:19 G	7100563.32	7100563.43	7100563.59	0.0143	0.0128
Saturn	14758-07-04 12:28 G	7111492.81	7111493.02	7111493.25	0.0277	0.0169
Uranus	14765-04-24 08:24 G	7113978.59	7113978.85	7113979.13	0.0137	0.0066
Uranus	14767-03-27 12:14 G	7114680.72	7114681.01	7114681.30	0.0136	0.0047
Jupiter	14772-11-24 04:33 G	7116749.51	7116749.69	7116749.88	0.0507	0.0365
Neptune	14773-10-08 05:02 G	7117067.43	7117067.71	7117068.03	0.0089	0.0031
Neptune	14775-09-03 10:33 G	7117762.72	7117762.94	7117763.19	0.0089	0.0060

Saturn	14802-11-02 04:19 G	7127684.43	7127684.68	7127684.94	0.0282	0.0150
Jupiter	14808-08-29 10:33 G	7129811.78	7129811.94	7129812.12	0.0510	0.0389
Uranus	14809-05-21 07:26 G	7130076.56	7130076.81	7130077.08	0.0141	0.0073
Uranus	14811-04-24 01:26 G	7130779.29	7130779.56	7130779.86	0.0142	0.0052
Saturn	14846-11-28 17:16 G	7143781.97	7143782.22	7143782.49	0.0276	0.0097
Uranus	14848-01-16 00:00 G	7144195.45	7144195.50	7144195.58	0.0138	0.0134
Uranus	14849-12-18 14:38 G	7144897.80	7144898.11	7144898.42	0.0137	0.0017
Uranus	14851-11-20 14:38 G	7145599.90	7145600.11	7145600.34	0.0136	0.0095
Neptune	14855-09-09 21:07 G	7146989.35	7146989.38	7146989.47	0.0089	0.0087
Neptune	14857-08-04 08:38 G	7147683.55	7147683.86	7147684.17	0.0089	0.0001
Neptune	14859-06-29 15:50 G	7148378.10	7148378.16	7148378.30	0.0089	0.0084
Jupiter	14873-06-03 23:02 G	7153466.25	7153466.46	7153466.68	0.0519	0.0327
Saturn	14891-03-28 08:24 G	7159972.64	7159972.85	7159973.09	0.0282	0.0190
Uranus	14894-01-14 11:31 G	7160995.69	7160995.98	7160996.29	0.0142	0.0022
Uranus	14895-12-18 11:16 G	7161698.79	7161698.97	7161699.20	0.0142	0.0107
Jupiter	14927-02-19 03:21 G	7173083.38	7173083.64	7173083.91	0.0507	0.0135
Uranus	14932-09-11 11:45 G	7175114.75	7175114.99	7175115.25	0.0137	0.0083
Uranus	14934-08-14 21:50 G	7175817.12	7175817.41	7175817.72	0.0136	0.0034
Saturn	14935-04-25 03:07 G	7176070.36	7176070.63	7176070.91	0.0277	0.0052
Neptune	14937-05-23 08:52 G	7176829.69	7176829.87	7176830.09	0.0089	0.0069
Neptune	14939-04-18 12:43 G	7177524.74	7177525.03	7177525.37	0.0089	0.0021
Uranus	14976-10-08 09:36 G	7191212.67	7191212.90	7191213.13	0.0141	0.0091
Uranus	14978-09-10 22:33 G	7191915.14	7191915.44	7191915.73	0.0142	0.0032
Saturn	14979-08-23 12:43 G	7192261.97	7192262.03	7192262.10	0.0282	0.0275
Jupiter	14991-11-23 11:02 G	7196736.74	7196736.96	7196737.20	0.0522	0.0293

16TH MILLENNIUM CE

This is a list of transits of Mars in the 16th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	15017-05-08 21:21	G	7206034.09	7206034.39	7206034.70	0.0137	0.0031	
Uranus	15019-04-11 02:24	G	7206736.37	7206736.60	7206736.86	0.0136	0.0084	
Neptune	15021-03-20 23:45	G	7207446.24	7207446.49	7207446.79	0.0089	0.0040	
Neptune	15023-02-13 09:50	G	7208140.67	7208140.91	7208141.20	0.0089	0.0046	
Saturn	15023-09-20 16:19	G	7208359.91	7208360.18	7208360.46	0.0277	0.0038	
Pluto	15044-06-27 22:19	G	7215946.29	7215946.43	7215946.64	0.0065	0.0055	
Uranus	15061-06-04 14:24	G	7222131.81	7222132.10	7222132.39	0.0141	0.0040	
Uranus	15063-05-08 07:55	G	7222834.61	7222834.83	7222835.09	0.0142	0.0087	
Jupiter	15081-05-16 02:24	G	7229417.33	7229417.60	7229417.87	0.0507	0.0097	
Uranus	15100-01-30 13:55	G	7236250.89	7236251.08	7236251.33	0.0138	0.0099	
Uranus	15102-01-03 06:43	G	7236953.48	7236953.78	7236954.09	0.0137	0.0021	
Neptune	15102-12-02 14:52	G	7237286.82	7237287.12	7237287.45	0.0089	0.0020	
Uranus	15103-12-06 06:57	G	7237655.76	7237655.79	7237655.88	0.0136	0.0133	
Neptune	15104-10-27 19:12	G	7237982.12	7237982.30	7237982.51	0.0089	0.0070	
Saturn	15112-02-15 14:52	G	7240648.87	7240649.12	7240649.39	0.0277	0.0105	
Saturn	15126-04-24 01:40	G	7245830.57	7245830.57	7245830.62	0.0282	0.0281	
Uranus	15144-02-27 16:19	G	7252349.00	7252349.18	7252349.38	0.0141	0.0108	
Uranus	15146-01-29 23:31	G	7253051.18	7253051.48	7253051.78	0.0142	0.0015	
Jupiter	15146-02-17 14:52	G	7253069.85	7253070.12	7253070.39	0.0522	0.0110	
Uranus	15184-09-26 03:21	G	7267170.36	7267170.64	7267170.96	0.0137	0.0046	
Neptune	15184-11-03 14:09	G	7267208.96	7267209.09	7267209.24	0.0088	0.0079	
Uranus	15186-08-29 14:24	G	7267872.85	7267873.10	7267873.38	0.0136	0.0072	

Neptune	15186-09-29 01:26 G	7267903.26	7267903.56	7267903.88	0.0089	0.0007
Jupiter	15199-11-05 08:09 G	7272688.74	7272688.84	7272688.96	0.0505	0.0464
Saturn	15200-07-12 02:09 G	7272938.39	7272938.59	7272938.79	0.0277	0.0194
Saturn	15214-09-19 08:52 G	7278120.61	7278120.87	7278121.14	0.0282	0.0149
Uranus	15228-10-22 19:40 G	7283268.06	7283268.32	7283268.60	0.0141	0.0057
Uranus	15230-09-25 06:00 G	7283970.50	7283970.75	7283971.03	0.0142	0.0069
Jupiter	15235-08-10 09:36 G	7285750.68	7285750.90	7285751.14	0.0508	0.0275
Neptune	15266-07-16 19:26 G	7297049.08	7297049.31	7297049.56	0.0089	0.0059
Uranus	15267-06-19 16:19 G	7297387.02	7297387.18	7297387.38	0.0138	0.0114
Neptune	15268-06-10 20:52 G	7297744.08	7297744.37	7297744.69	0.0089	0.0030
Uranus	15269-05-22 15:07 G	7298089.82	7298090.13	7298090.44	0.0137	0.0008
Uranus	15271-04-24 21:36 G	7298792.29	7298792.40	7298792.55	0.0136	0.0123
Saturn	15288-12-06 03:50 G	7305227.58	7305227.66	7305227.74	0.0276	0.0264
Pluto	15290-11-20 18:00 G	7305942.11	7305942.25	7305942.44	0.0065	0.0055
Jupiter	15300-05-14 16:04 G	7309403.91	7309404.17	7309404.44	0.0522	0.0137
Saturn	15303-02-14 00:00 G	7310409.21	7310409.50	7310409.80	0.0282	0.0089
Uranus	15311-07-18 03:21 G	7313485.53	7313485.64	7313485.80	0.0140	0.0125
Uranus	15313-06-19 03:36 G	7314187.35	7314187.65	7314187.96	0.0141	0.0004
Uranus	15315-05-22 18:00 G	7314890.14	7314890.25	7314890.43	0.0142	0.0126
Saturn	15347-03-16 18:43 G	7326511.16	7326511.28	7326511.42	0.0276	0.0244
Neptune	15350-05-14 14:09 G	7327665.83	7327666.09	7327666.40	0.0089	0.0034
Uranus	15352-02-14 07:26 G	7328306.54	7328306.81	7328307.11	0.0138	0.0061
Neptune	15352-04-08 01:12 G	7328360.32	7328360.55	7328360.82	0.0089	0.0052
Uranus	15354-01-17 01:12 G	7329009.29	7329009.55	7329009.85	0.0137	0.0060
Jupiter	15354-01-29 17:02 G	7329021.98	7329022.21	7329022.44	0.0505	0.0281
Pluto	15378-06-21 08:38 G	7337930.78	7337930.86	7337930.97	0.0079	0.0075
Jupiter	15389-11-04 03:21 G	7342084.56	7342084.64	7342084.72	0.0507	0.0483
Saturn	15391-07-11 14:52 G	7342698.81	7342699.12	7342699.43	0.0283	0.0014
Uranus	15396-03-12 06:00 G	7344404.51	7344404.75	7344405.02	0.0141	0.0075
Uranus	15398-02-12 09:36 G	7345106.63	7345106.90	7345107.19	0.0141	0.0050

Jupiter	15418-11-03 10:19 G	7352674.84	7352674.93	7352675.04	0.0524	0.0483
Neptune	15432-01-25 23:16 G	7357506.16	7357506.47	7357506.79	0.0089	0.0011
Neptune	15433-12-21 01:12 G	7358201.41	7358201.55	7358201.71	0.0089	0.0078
Uranus	15434-11-07 16:19 G	7358523.10	7358523.18	7358523.29	0.0138	0.0132
Saturn	15435-08-11 04:48 G	7358799.52	7358799.70	7358799.91	0.0277	0.0197
Uranus	15436-10-10 22:19 G	7359226.11	7359226.43	7359226.74	0.0137	0.0007
Uranus	15438-09-13 11:31 G	7359928.82	7359928.98	7359929.18	0.0137	0.0111
Jupiter	15454-08-09 09:21 G	7365737.70	7365737.89	7365738.09	0.0522	0.0361
Saturn	15479-12-05 13:26 G	7374986.76	7374987.06	7374987.37	0.0283	0.0047
Uranus	15480-11-06 13:12 G	7375323.76	7375324.05	7375324.35	0.0141	0.0021
Uranus	15482-10-09 21:36 G	7376026.22	7376026.40	7376026.62	0.0142	0.0106
Jupiter	15508-04-26 20:38 G	7385356.09	7385356.36	7385356.64	0.0505	0.0037
Neptune	15513-12-29 00:14 G	7387428.36	7387428.51	7387428.71	0.0088	0.0073
Neptune	15515-11-23 15:07 G	7388122.83	7388123.13	7388123.44	0.0089	0.0013
Uranus	15519-07-05 10:48 G	7389442.69	7389442.95	7389443.21	0.0138	0.0076
Uranus	15521-06-07 11:31 G	7390145.70	7390145.98	7390146.29	0.0137	0.0046
Saturn	15524-01-06 04:04 G	7391088.43	7391088.67	7391088.91	0.0276	0.0136
Uranus	15563-08-01 22:19 G	7405541.22	7405541.43	7405541.68	0.0140	0.0090
Uranus	15565-07-03 20:38 G	7406243.07	7406243.36	7406243.65	0.0141	0.0032
Saturn	15568-05-01 00:00 G	7407275.22	7407275.50	7407275.80	0.0283	0.0100
Jupiter	15573-01-28 09:36 G	7409008.66	7409008.90	7409009.15	0.0524	0.0240
Neptune	15595-09-10 02:09 G	7417268.36	7417268.59	7417268.88	0.0089	0.0051
Neptune	15597-08-05 03:21 G	7417963.37	7417963.64	7417963.95	0.0089	0.0038
Uranus	15604-02-29 02:24 G	7420362.28	7420362.60	7420362.91	0.0138	0.0022
Uranus	15606-01-31 22:04 G	7421065.21	7421065.42	7421065.65	0.0137	0.0098
Saturn	15612-05-31 04:04 G	7423376.41	7423376.67	7423376.92	0.0276	0.0109
Uranus	15648-03-27 03:50 G	7436460.38	7436460.66	7436460.95	0.0140	0.0037
Uranus	15650-02-27 06:00 G	7437162.54	7437162.75	7437163.01	0.0141	0.0089
Saturn	15656-09-23 19:55 G	7439563.06	7439563.33	7439563.61	0.0283	0.0129
Jupiter	15662-07-22 05:31 G	7441690.48	7441690.73	7441690.97	0.0506	0.0228

Neptune	15679-07-08 00:57 G	7447885.25	7447885.54	7447885.84	0.0088	0.0027
Neptune	15681-06-01 13:40 G	7448579.86	7448580.07	7448580.33	0.0089	0.0058
Uranus	15686-11-21 09:50 G	7450578.70	7450578.91	7450579.17	0.0138	0.0094
Uranus	15688-10-24 18:14 G	7451281.96	7451282.26	7451282.57	0.0138	0.0033
Saturn	15700-10-26 04:48 G	7455665.43	7455665.70	7455665.98	0.0275	0.0046
Jupiter	15727-04-26 03:07 G	7465343.36	7465343.63	7465343.90	0.0524	0.0069
Uranus	15730-12-20 16:04 G	7466677.99	7466678.17	7466678.38	0.0140	0.0105
Uranus	15732-11-21 08:09 G	7467379.54	7467379.84	7467380.14	0.0141	0.0016
Saturn	15745-02-17 18:14 G	7471851.01	7471851.26	7471851.52	0.0283	0.0160
Neptune	15761-03-20 04:48 G	7477725.38	7477725.70	7477726.02	0.0089	0.0003
Neptune	15763-02-13 05:31 G	7478420.69	7478420.73	7478420.86	0.0089	0.0086
Uranus	15771-07-19 02:38 G	7481498.31	7481498.61	7481498.93	0.0138	0.0039
Uranus	15773-06-21 04:04 G	7482201.44	7482201.67	7482201.93	0.0137	0.0086
Jupiter	15781-01-10 22:04 G	7484962.20	7484962.42	7484962.65	0.0503	0.0290
Pluto	15781-10-18 04:04 G	7485242.38	7485242.67	7485242.98	0.0065	0.0013
Saturn	15789-03-21 10:19 G	7487953.65	7487953.93	7487954.20	0.0276	0.0011
Uranus	15815-08-16 18:57 G	7497597.02	7497597.29	7497597.57	0.0140	0.0053
Jupiter	15816-10-17 15:07 G	7498025.10	7498025.13	7498025.17	0.0505	0.0500
Uranus	15817-07-18 14:52 G	7498298.87	7498299.12	7498299.39	0.0141	0.0070
Saturn	15833-07-15 10:19 G	7504139.76	7504139.93	7504140.13	0.0283	0.0228
Neptune	15843-02-21 11:31 G	7507647.79	7507647.98	7507648.21	0.0088	0.0066
Neptune	15845-01-16 02:09 G	7508342.29	7508342.59	7508342.90	0.0088	0.0020
Uranus	15854-04-11 04:48 G	7511714.53	7511714.70	7511714.91	0.0139	0.0112
Uranus	15856-03-14 18:28 G	7512417.96	7512418.27	7512418.59	0.0138	0.0017
Pluto	15869-05-17 10:19 G	7517229.86	7517229.93	7517230.09	0.0079	0.0075
Saturn	15877-08-16 19:26 G	7520243.05	7520243.31	7520243.59	0.0276	0.0072
Jupiter	15881-07-20 17:45 G	7521677.02	7521677.24	7521677.47	0.0524	0.0296
Uranus	15898-05-10 11:16 G	7527814.85	7527814.97	7527815.14	0.0139	0.0122
Uranus	15900-04-11 21:07 G	7528516.09	7528516.38	7528516.68	0.0140	0.0003
Uranus	15902-03-14 20:38 G	7529218.22	7529218.36	7529218.51	0.0141	0.0124

Saturn	15921-12-09 19:55 G	7536428.29	7536428.33	7536428.41	0.0283	0.0277
Neptune	15924-11-03 08:24 G	7537487.59	7537487.85	7537488.15	0.0089	0.0043
Neptune	15926-09-29 06:57 G	7538182.54	7538182.79	7538183.09	0.0089	0.0045
Jupiter	15935-04-09 01:55 G	7541296.30	7541296.58	7541296.85	0.0503	0.0035
Uranus	15938-12-06 20:24 G	7542634.08	7542634.35	7542634.66	0.0139	0.0058
Uranus	15940-11-09 05:45 G	7543337.47	7543337.74	7543338.02	0.0138	0.0069
Saturn	15966-01-11 13:55 G	7552531.84	7552532.08	7552532.33	0.0276	0.0130
Uranus	15983-01-04 12:00 G	7558733.76	7558734.00	7558734.27	0.0140	0.0072
Uranus	15984-12-06 01:12 G	7559435.28	7559435.55	7559435.83	0.0141	0.0051
Jupiter	16000-01-09 07:55 G	7564947.63	7564947.83	7564948.03	0.0526	0.0353

17TH MILLENNIUM CE

This is a list of transits of Mars in the 17th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	16008-08-31 13:40 G		7568104.77	7568105.07	7568105.38	0.0088	0.0019	
Neptune	16010-07-27 03:36 G		7568799.45	7568799.65	7568799.86	0.0088	0.0066	
Uranus	16021-08-28 17:02 G		7572850.14	7572850.21	7572850.32	0.0139	0.0133	
Uranus	16023-08-02 13:40 G		7573553.75	7573554.07	7573554.39	0.0138	0.0003	
Uranus	16025-07-05 18:00 G		7574257.11	7574257.25	7574257.40	0.0137	0.0122	
Saturn	16054-06-08 01:40 G		7584821.41	7584821.57	7584821.74	0.0276	0.0220	
Uranus	16065-09-28 09:36 G		7588951.88	7588951.90	7588951.96	0.0139	0.0137	
Uranus	16067-08-30 13:26 G		7589652.77	7589653.06	7589653.36	0.0140	0.0020	
Saturn	16068-08-09 00:14 G		7589997.35	7589997.51	7589997.69	0.0283	0.0236	

Uranus	16069-08-01 07:26 G	7590354.63	7590354.81	7590355.03	0.0141	0.0106
Neptune	16088-06-17 14:09 G	7597249.99	7597250.09	7597250.25	0.0089	0.0081
Jupiter	16089-07-02 09:50 G	7597629.65	7597629.91	7597630.17	0.0504	0.0153
Neptune	16090-05-13 11:45 G	7597944.68	7597944.99	7597945.31	0.0089	0.0006
Uranus	16106-04-25 08:52 G	7603769.62	7603769.87	7603770.15	0.0139	0.0078
Uranus	16108-03-29 01:26 G	7604473.28	7604473.56	7604473.87	0.0138	0.0052
Saturn	16112-09-16 01:26 G	7606105.55	7606105.56	7606105.61	0.0276	0.0275
Uranus	16150-05-25 08:09 G	7619870.63	7619870.84	7619871.09	0.0139	0.0088
Uranus	16152-04-25 16:19 G	7620571.90	7620572.18	7620572.48	0.0140	0.0034
Jupiter	16154-04-05 06:28 G	7621281.51	7621281.77	7621282.04	0.0526	0.0109
Saturn	16157-01-03 19:40 G	7622286.08	7622286.32	7622286.59	0.0283	0.0168
Neptune	16172-04-15 23:16 G	7627867.26	7627867.47	7627867.75	0.0088	0.0057
Neptune	16174-03-11 16:33 G	7628561.90	7628562.19	7628562.49	0.0088	0.0029
Uranus	16190-12-20 03:07 G	7634689.32	7634689.63	7634689.95	0.0139	0.0022
Uranus	16192-11-22 14:38 G	7635392.93	7635393.11	7635393.33	0.0138	0.0106
Saturn	16201-02-11 06:14 G	7638394.58	7638394.76	7638394.95	0.0275	0.0201
Jupiter	16207-12-23 08:52 G	7640900.73	7640900.87	7640901.03	0.0501	0.0420
Uranus	16235-01-19 06:57 G	7650789.51	7650789.79	7650790.08	0.0139	0.0036
Uranus	16236-12-20 20:09 G	7651491.12	7651491.34	7651491.59	0.0140	0.0089
Jupiter	16243-09-27 21:50 G	7653963.21	7653963.41	7653963.61	0.0503	0.0354
Saturn	16245-06-01 21:07 G	7654576.07	7654576.38	7654576.69	0.0283	0.0047
Neptune	16253-12-27 16:48 G	7657706.92	7657707.20	7657707.50	0.0089	0.0033
Neptune	16255-11-22 14:09 G	7658401.86	7658402.09	7658402.36	0.0089	0.0054
Uranus	16273-09-11 16:33 G	7664904.99	7664905.19	7664905.44	0.0139	0.0100
Uranus	16275-08-16 16:19 G	7665608.88	7665609.18	7665609.50	0.0138	0.0033
Saturn	16289-07-07 23:45 G	7670683.25	7670683.49	7670683.72	0.0276	0.0141
Jupiter	16308-06-30 16:33 G	7677614.93	7677615.19	7677615.46	0.0526	0.0095
Uranus	16317-10-14 02:38 G	7681007.42	7681007.61	7681007.81	0.0139	0.0103
Uranus	16319-09-15 06:28 G	7681708.48	7681708.77	7681709.07	0.0140	0.0017
Saturn	16333-10-27 03:21 G	7686864.33	7686864.64	7686864.96	0.0283	0.0004

Neptune	16337-10-26 05:31 G	7688324.42	7688324.73	7688325.04	0.0088	0.0007
Neptune	16339-09-20 20:52 G	7689019.24	7689019.37	7689019.54	0.0088	0.0077
Uranus	16358-05-09 11:31 G	7695824.69	7695824.98	7695825.30	0.0139	0.0043
Uranus	16360-04-12 05:16 G	7696528.50	7696528.72	7696528.99	0.0138	0.0089
Jupiter	16362-03-19 05:02 G	7697234.46	7697234.71	7697234.97	0.0501	0.0190
Saturn	16377-12-03 01:12 G	7702972.30	7702972.55	7702972.83	0.0275	0.0076
Uranus	16402-06-08 23:45 G	7711926.24	7711926.49	7711926.78	0.0139	0.0054
Uranus	16404-05-10 06:43 G	7712627.54	7712627.78	7712628.05	0.0140	0.0070
Neptune	16417-08-12 02:24 G	7717469.43	7717469.60	7717469.81	0.0089	0.0070
Neptune	16419-07-07 21:50 G	7718164.11	7718164.41	7718164.73	0.0089	0.0016
Saturn	16422-03-22 22:04 G	7719153.13	7719153.42	7719153.74	0.0284	0.0070
Jupiter	16426-12-19 18:00 G	7720886.24	7720886.25	7720886.27	0.0529	0.0527
Uranus	16441-01-28 17:45 G	7726040.13	7726040.24	7726040.42	0.0140	0.0125
Uranus	16443-01-03 00:43 G	7726744.21	7726744.53	7726744.85	0.0139	0.0013
Jupiter	16462-09-25 03:21 G	7733949.46	7733949.64	7733949.82	0.0525	0.0388
Saturn	16466-04-28 04:33 G	7735260.43	7735260.69	7735260.97	0.0275	0.0043
Uranus	16485-03-02 22:19 G	7742144.29	7742144.43	7742144.57	0.0139	0.0121
Uranus	16487-02-01 20:09 G	7742845.05	7742845.34	7742845.64	0.0139	0.0003
Uranus	16489-01-03 06:14 G	7743546.63	7743546.76	7743546.91	0.0140	0.0124
Neptune	16501-06-10 18:14 G	7748087.00	7748087.26	7748087.55	0.0088	0.0044
Neptune	16503-05-06 11:16 G	7748781.71	7748781.97	7748782.27	0.0088	0.0042
Saturn	16510-08-16 17:31 G	7751440.94	7751441.23	7751441.53	0.0284	0.0101
Jupiter	16516-06-13 11:02 G	7753568.68	7753568.96	7753569.24	0.0502	0.0075
Pluto	16519-02-07 19:26 G	7754538.01	7754538.31	7754538.62	0.0065	0.0006
Uranus	16525-09-25 13:55 G	7756959.80	7756960.08	7756960.37	0.0139	0.0067
Uranus	16527-08-30 14:52 G	7757663.86	7757664.12	7757664.41	0.0138	0.0069
Saturn	16554-09-23 03:50 G	7767549.38	7767549.66	7767549.93	0.0275	0.0018
Uranus	16569-10-27 16:48 G	7773062.97	7773063.20	7773063.47	0.0139	0.0072
Uranus	16571-09-28 17:31 G	7773763.97	7773764.23	7773764.52	0.0140	0.0051
Jupiter	16581-03-16 11:02 G	7777220.72	7777220.96	7777221.21	0.0528	0.0214

Neptune	16583-02-20 07:55 G	7777926.53	7777926.83	7777927.14	0.0089	0.0021
Neptune	16585-01-15 03:21 G	7778621.44	7778621.64	7778621.86	0.0089	0.0065
Saturn	16599-01-09 13:55 G	7783728.81	7783729.08	7783729.37	0.0284	0.0131
Uranus	16610-05-23 03:36 G	7787879.33	7787879.65	7787879.98	0.0139	0.0011
Uranus	16612-04-26 00:00 G	7788583.38	7788583.50	7788583.67	0.0138	0.0122
Jupiter	16634-12-04 00:43 G	7796840.42	7796840.53	7796840.67	0.0499	0.0445
Saturn	16643-02-17 05:02 G	7799837.44	7799837.71	7799837.98	0.0275	0.0045
Uranus	16652-07-22 19:55 G	7803281.33	7803281.33	7803281.34	0.0138	0.0138
Uranus	16654-06-23 12:14 G	7803981.72	7803982.01	7803982.30	0.0139	0.0021
Uranus	16656-05-24 16:48 G	7804683.02	7804683.20	7804683.41	0.0140	0.0104
Neptune	16665-01-24 06:43 G	7807849.67	7807849.78	7807849.96	0.0088	0.0079
Neptune	16666-12-20 04:04 G	7808544.36	7808544.67	7808544.99	0.0088	0.0007
Jupiter	16670-09-08 22:48 G	7809903.26	7809903.45	7809903.64	0.0501	0.0363
Saturn	16687-06-05 19:55 G	7816017.10	7816017.33	7816017.57	0.0284	0.0182
Uranus	16693-02-11 09:36 G	7818094.67	7818094.90	7818095.16	0.0140	0.0092
Uranus	16695-01-16 18:28 G	7818798.98	7818799.27	7818799.59	0.0139	0.0047
Saturn	16731-07-15 09:07 G	7832126.64	7832126.88	7832127.14	0.0275	0.0116
Jupiter	16735-06-12 06:43 G	7833554.51	7833554.78	7833555.04	0.0528	0.0032
Uranus	16737-03-18 11:16 G	7834199.77	7834199.97	7834200.21	0.0139	0.0090
Uranus	16739-02-17 07:55 G	7834900.54	7834900.83	7834901.11	0.0139	0.0032
Neptune	16746-10-06 21:07 G	7837689.17	7837689.38	7837689.65	0.0089	0.0057
Neptune	16748-08-31 15:50 G	7838383.89	7838384.16	7838384.48	0.0089	0.0029
Saturn	16775-10-30 20:09 G	7848305.15	7848305.34	7848305.55	0.0284	0.0217
Uranus	16777-10-09 02:24 G	7849014.29	7849014.60	7849014.92	0.0139	0.0034
Uranus	16779-09-13 06:14 G	7849718.55	7849718.76	7849718.98	0.0138	0.0102
Jupiter	16789-02-28 09:36 G	7853174.64	7853174.90	7853175.17	0.0499	0.0165
Saturn	16819-12-08 20:52 G	7864415.16	7864415.37	7864415.60	0.0275	0.0161
Uranus	16821-11-11 02:38 G	7865118.33	7865118.61	7865118.89	0.0139	0.0039
Uranus	16823-10-13 02:24 G	7865819.39	7865819.60	7865819.86	0.0140	0.0085
Neptune	16830-08-04 17:45 G	7868306.95	7868307.24	7868307.56	0.0088	0.0028

Neptune	16832-06-29 13:26 G	7869001.83	7869002.06	7869002.31	0.0088	0.0057
Pluto	16853-01-28 17:02 G	7876519.96	7876520.21	7876520.53	0.0079	0.0041
Uranus	16860-06-30 02:52 G	7879229.46	7879229.62	7879229.81	0.0140	0.0118
Uranus	16862-06-04 18:43 G	7879933.97	7879934.28	7879934.61	0.0139	0.0024
Jupiter	16889-09-05 12:00 G	7889888.79	7889889.00	7889889.23	0.0527	0.0307
Uranus	16904-08-06 03:07 G	7895336.47	7895336.63	7895336.83	0.0138	0.0108
Uranus	16906-07-07 19:26 G	7896037.03	7896037.31	7896037.61	0.0139	0.0013
Saturn	16908-05-05 06:43 G	7896704.68	7896704.78	7896704.91	0.0276	0.0247
Uranus	16908-06-07 23:02 G	7896738.43	7896738.46	7896738.54	0.0140	0.0137
Neptune	16912-04-16 06:43 G	7898146.47	7898146.78	7898147.09	0.0089	0.0006
Neptune	16914-03-12 01:26 G	7898841.44	7898841.56	7898841.72	0.0089	0.0079
Jupiter	16943-05-25 22:33 G	7909508.16	7909508.44	7909508.72	0.0500	0.0044
Uranus	16945-02-24 20:38 G	7910149.07	7910149.36	7910149.66	0.0140	0.0060
Uranus	16947-01-30 06:14 G	7910853.51	7910853.76	7910854.03	0.0139	0.0080
Saturn	16966-08-13 15:21 G	7917989.00	7917989.14	7917989.28	0.0276	0.0235
Uranus	16989-03-31 16:04 G	7926254.92	7926255.17	7926255.44	0.0139	0.0060
Uranus	16991-03-02 11:02 G	7926955.71	7926955.96	7926956.23	0.0139	0.0063
Neptune	16994-03-20 09:36 G	7928069.70	7928069.90	7928070.16	0.0088	0.0062
Neptune	16996-02-13 06:14 G	7928764.47	7928764.76	7928765.08	0.0088	0.0024

18TH MILLENNIUM CE

This is a list of transits of Mars in the 18th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Jupiter	17008-02-26 06:57 G	7933159.60	7933159.79	7933159.98	0.0530	0.0361
Saturn	17010-11-24 14:24 G	7934162.00	7934162.10	7934162.21	0.0283	0.0268
Uranus	17029-10-22 13:40 G	7941068.75	7941069.07	7941069.40	0.0139	0.0003
Uranus	17031-09-26 17:45 G	7941773.19	7941773.24	7941773.33	0.0139	0.0135
Jupiter	17043-12-01 16:48 G	7946222.12	7946222.20	7946222.30	0.0528	0.0493
Saturn	17055-01-08 20:38 G	7950278.15	7950278.36	7950278.59	0.0275	0.0162
Uranus	17071-12-25 19:12 G	7956473.21	7956473.30	7956473.41	0.0138	0.0129
Uranus	17073-11-25 06:14 G	7957173.47	7957173.76	7957174.05	0.0139	0.0011
Uranus	17075-10-27 03:36 G	7957874.49	7957874.65	7957874.83	0.0140	0.0114
Neptune	17075-12-01 00:14 G	7957909.26	7957909.51	7957909.81	0.0089	0.0041
Neptune	17077-10-25 16:48 G	7958603.94	7958604.20	7958604.48	0.0089	0.0044
Jupiter	17097-08-19 09:21 G	7965841.65	7965841.89	7965842.14	0.0500	0.0247
Saturn	17099-04-21 23:16 G	7966452.20	7966452.47	7966452.76	0.0284	0.0134
Uranus	17112-07-14 09:07 G	7971283.65	7971283.88	7971284.16	0.0140	0.0089
Uranus	17114-06-19 01:40 G	7971988.28	7971988.57	7971988.88	0.0139	0.0054
Saturn	17143-06-05 20:24 G	7982567.10	7982567.35	7982567.62	0.0276	0.0093
Uranus	17156-08-20 06:43 G	7987391.57	7987391.78	7987392.04	0.0138	0.0083
Uranus	17158-07-21 21:07 G	7988092.10	7988092.38	7988092.66	0.0139	0.0040
Neptune	17159-09-30 00:00 G	7988527.19	7988527.50	7988527.82	0.0088	0.0010
Neptune	17161-08-24 18:57 G	7989222.17	7989222.29	7989222.50	0.0088	0.0076
Jupiter	17162-05-22 13:12 G	7989492.80	7989493.05	7989493.31	0.0530	0.0174
Saturn	17187-09-16 15:21 G	7998740.84	7998741.14	7998741.45	0.0284	0.0070
Uranus	17197-03-10 02:09 G	8002203.28	8002203.59	8002203.92	0.0140	0.0030
Uranus	17199-02-12 14:09 G	8002907.91	8002908.09	8002908.30	0.0139	0.0110
Jupiter	17216-02-08 08:09 G	8009112.62	8009112.84	8009113.05	0.0498	0.0321
Saturn	17231-10-31 02:09 G	8014856.32	8014856.59	8014856.86	0.0275	0.0022
Neptune	17239-07-16 22:33 G	8017672.29	8017672.44	8017672.64	0.0089	0.0073
Uranus	17241-04-14 19:40 G	8018310.05	8018310.32	8018310.61	0.0139	0.0033
Neptune	17241-06-10 13:12 G	8018366.75	8018367.05	8018367.37	0.0089	0.0011
Uranus	17243-03-16 12:43 G	8019010.82	8019011.03	8019011.26	0.0139	0.0092

Jupiter	17251-11-14 05:02 G	8022175.64	8022175.71	8022175.79	0.0500	0.0482
Pluto	17256-05-28 15:50 G	8023833.13	8023833.16	8023833.29	0.0065	0.0063
Saturn	17276-02-10 23:16 G	8031030.16	8031030.47	8031030.79	0.0284	0.0019
Uranus	17279-11-29 16:48 G	8032418.06	8032418.20	8032418.40	0.0140	0.0119
Uranus	17281-11-03 17:16 G	8033122.91	8033123.22	8033123.55	0.0139	0.0028
Jupiter	17316-08-16 20:09 G	8045827.08	8045827.34	8045827.60	0.0529	0.0104
Saturn	17320-03-26 11:02 G	8047144.69	8047144.96	8047145.23	0.0275	0.0019
Neptune	17323-05-15 14:52 G	8048289.86	8048290.12	8048290.42	0.0088	0.0043
Uranus	17324-01-08 23:02 G	8048528.27	8048528.46	8048528.65	0.0138	0.0103
Neptune	17325-04-09 13:55 G	8048984.82	8048985.08	8048985.37	0.0088	0.0043
Uranus	17325-12-09 08:09 G	8049228.55	8049228.84	8049229.13	0.0139	0.0018
Saturn	17364-07-07 00:00 G	8063318.19	8063318.50	8063318.81	0.0284	0.0059
Uranus	17364-07-26 13:26 G	8063337.76	8063338.06	8063338.36	0.0140	0.0059
Uranus	17366-07-01 08:24 G	8064042.60	8064042.85	8064043.12	0.0139	0.0085
Jupiter	17370-05-05 10:19 G	8065446.65	8065446.93	8065447.21	0.0498	0.0065
Neptune	17405-01-25 10:04 G	8078129.63	8078129.92	8078130.23	0.0089	0.0022
Neptune	17406-12-21 00:57 G	8078824.34	8078824.54	8078824.79	0.0089	0.0062
Saturn	17408-08-21 12:28 G	8079433.76	8079434.02	8079434.28	0.0274	0.0081
Uranus	17408-09-03 07:40 G	8079446.57	8079446.82	8079447.10	0.0138	0.0055
Uranus	17410-08-04 22:19 G	8080147.19	8080147.43	8080147.69	0.0139	0.0069
Jupiter	17435-02-06 08:09 G	8089098.78	8089098.84	8089098.91	0.0532	0.0511
Uranus	17449-03-23 07:26 G	8094257.48	8094257.81	8094258.13	0.0140	0.0002
Saturn	17452-12-01 00:28 G	8095606.23	8095606.52	8095606.83	0.0284	0.0095
Jupiter	17470-11-11 20:09 G	8102161.15	8102161.34	8102161.53	0.0530	0.0369
Neptune	17486-12-29 05:45 G	8108052.61	8108052.74	8108052.94	0.0088	0.0076
Neptune	17488-11-23 06:57 G	8108747.48	8108747.79	8108748.12	0.0088	0.0010
Uranus	17491-05-29 12:43 G	8109664.92	8109665.03	8109665.15	0.0138	0.0126
Uranus	17493-04-28 18:57 G	8110365.00	8110365.29	8110365.58	0.0139	0.0006
Uranus	17495-03-30 11:45 G	8111065.87	8111065.99	8111066.15	0.0139	0.0121
Saturn	17497-01-14 13:55 G	8111721.84	8111722.08	8111722.34	0.0275	0.0108

Pluto	17502-10-22 17:45 G	8113827.96	8113828.24	8113828.56	0.0065	0.0010
Jupiter	17524-07-31 22:33 G	8121781.20	8121781.44	8121781.70	0.0498	0.0231
Uranus	17531-12-13 21:21 G	8124472.15	8124472.39	8124472.66	0.0140	0.0090
Uranus	17533-11-17 23:02 G	8125177.19	8125177.46	8125177.78	0.0139	0.0060
Saturn	17541-04-27 00:00 G	8127894.23	8127894.50	8127894.79	0.0284	0.0137
Neptune	17568-09-10 09:21 G	8137892.67	8137892.89	8137893.16	0.0089	0.0054
Neptune	17570-08-05 22:48 G	8138587.18	8138587.45	8138587.77	0.0089	0.0031
Uranus	17576-01-22 20:09 G	8140583.13	8140583.34	8140583.60	0.0138	0.0079
Uranus	17577-12-23 05:45 G	8141283.48	8141283.74	8141284.03	0.0139	0.0045
Saturn	17585-06-11 16:19 G	8144010.98	8144011.18	8144011.40	0.0275	0.0173
Jupiter	17589-05-03 06:57 G	8145432.56	8145432.79	8145433.02	0.0532	0.0256
Uranus	17616-08-08 17:16 G	8155391.90	8155392.22	8155392.55	0.0140	0.0030
Uranus	17618-07-14 13:26 G	8156096.91	8156097.06	8156097.26	0.0139	0.0117
Saturn	17629-09-19 17:45 G	8160181.98	8160182.24	8160182.50	0.0284	0.0161
Jupiter	17643-01-20 08:24 G	8165052.63	8165052.85	8165053.09	0.0496	0.0296
Neptune	17652-07-08 22:04 G	8168510.12	8168510.42	8168510.74	0.0088	0.0023
Neptune	17654-06-03 21:07 G	8169205.18	8169205.38	8169205.63	0.0088	0.0063
Uranus	17660-09-16 05:45 G	8171501.47	8171501.74	8171502.03	0.0138	0.0031
Uranus	17662-08-17 17:16 G	8172202.03	8172202.22	8172202.45	0.0139	0.0096
Saturn	17673-11-04 22:33 G	8176299.28	8176299.44	8176299.63	0.0274	0.0209
Uranus	17699-04-30 01:55 G	8185606.43	8185606.58	8185606.75	0.0140	0.0123
Uranus	17701-04-05 10:33 G	8186311.62	8186311.94	8186312.26	0.0140	0.0030
Saturn	17718-02-14 16:19 G	8192471.04	8192471.18	8192471.35	0.0284	0.0245
Saturn	17732-02-14 11:02 G	8197583.94	8197583.96	8197584.02	0.0275	0.0271
Neptune	17732-04-26 10:04 G	8197655.86	8197655.92	8197656.03	0.0089	0.0085
Neptune	17734-03-21 21:36 G	8198350.10	8198350.40	8198350.71	0.0089	0.0003
Neptune	17736-02-14 10:48 G	8199044.85	8199044.95	8199045.10	0.0089	0.0081
Uranus	17743-06-12 12:28 G	8201719.85	8201720.02	8201720.23	0.0138	0.0103
Jupiter	17743-07-29 18:28 G	8201767.01	8201767.27	8201767.53	0.0531	0.0042
Uranus	17745-05-12 16:33 G	8202419.91	8202420.19	8202420.48	0.0139	0.0020

Pluto	17749-03-15 15:36 G	8203822.93	8203823.15	8203823.44	0.0065	0.0035
Uranus	17783-12-25 23:02 G	8216526.16	8216526.46	8216526.76	0.0140	0.0061
Uranus	17785-11-30 02:38 G	8217231.38	8217231.61	8217231.88	0.0139	0.0090
Jupiter	17797-04-16 03:21 G	8221386.36	8221386.64	8221386.93	0.0496	0.0060
Neptune	17816-02-23 11:31 G	8228272.73	8228272.98	8228273.24	0.0088	0.0055
Neptune	17818-01-18 13:40 G	8228967.79	8228968.07	8228968.39	0.0088	0.0031
Saturn	17820-07-11 16:19 G	8229872.99	8229873.18	8229873.37	0.0276	0.0193
Uranus	17828-02-05 20:09 G	8232638.09	8232638.34	8232638.61	0.0138	0.0054
Uranus	17830-01-06 03:07 G	8233338.40	8233338.63	8233338.89	0.0139	0.0072
Uranus	17868-08-21 19:40 G	8247445.99	8247446.32	8247446.65	0.0140	0.0001
Jupiter	17897-10-23 00:57 G	8258100.31	8258100.54	8258100.78	0.0532	0.0239
Neptune	17897-11-04 21:21 G	8258113.11	8258113.39	8258113.68	0.0089	0.0034
Neptune	17899-09-30 09:07 G	8258807.65	8258807.88	8258808.17	0.0089	0.0049
Saturn	17908-12-06 17:31 G	8262162.00	8262162.23	8262162.48	0.0275	0.0127
Uranus	17910-11-01 04:19 G	8262856.58	8262856.68	8262856.81	0.0138	0.0126
Uranus	17912-10-01 04:48 G	8263556.41	8263556.70	8263556.98	0.0138	0.0004
Uranus	17914-09-01 16:04 G	8264257.05	8264257.17	8264257.30	0.0139	0.0125
Uranus	17951-05-14 05:16 G	8277660.48	8277660.72	8277660.98	0.0140	0.0093
Jupiter	17951-07-12 15:36 G	8277719.88	8277720.15	8277720.43	0.0496	0.0155
Saturn	17953-03-11 07:55 G	8278327.67	8278327.83	8278328.02	0.0284	0.0237
Uranus	17953-04-18 15:36 G	8278365.87	8278366.15	8278366.46	0.0139	0.0062
Neptune	17979-10-08 22:04 G	8288035.41	8288035.42	8288035.51	0.0088	0.0088
Neptune	17981-09-03 02:38 G	8288730.29	8288730.61	8288730.94	0.0088	0.0002
Neptune	17983-07-30 03:50 G	8289425.58	8289425.66	8289425.81	0.0088	0.0083
Uranus	17995-06-26 09:50 G	8293774.70	8293774.91	8293775.17	0.0138	0.0078
Saturn	17997-05-02 19:55 G	8294451.06	8294451.33	8294451.59	0.0276	0.0053
Uranus	17997-05-26 13:40 G	8294474.82	8294475.07	8294475.36	0.0139	0.0048

19TH MILLENNIUM CE

This is a list of transits of Mars in the 19th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	18016-04-13 00:14	G	8301371.37	8301371.51	8301371.66	0.0534	0.0445	
Uranus	18036-01-08 04:48	G	8308580.38	8308580.70	8308581.03	0.0140	0.0030	
Uranus	18037-12-13 09:36	G	8309285.77	8309285.90	8309286.08	0.0139	0.0124	
Saturn	18041-08-05 03:36	G	8310616.41	8310616.65	8310616.93	0.0284	0.0166	
Jupiter	18052-01-17 17:45	G	8314434.12	8314434.24	8314434.37	0.0531	0.0469	
Neptune	18061-06-20 21:21	G	8317876.20	8317876.39	8317876.61	0.0089	0.0066	
Neptune	18063-05-16 07:55	G	8318570.55	8318570.83	8318571.15	0.0089	0.0017	
Jupiter	18069-12-30 05:02	G	8320990.58	8320990.71	8320990.85	0.0494	0.0435	
Uranus	18080-02-18 17:02	G	8324692.93	8324693.21	8324693.49	0.0138	0.0028	
Uranus	18082-01-18 23:16	G	8325393.29	8325393.47	8325393.69	0.0139	0.0099	
Pluto	18083-03-03 09:50	G	8325801.63	8325801.91	8325802.23	0.0080	0.0034	
Saturn	18085-09-27 04:04	G	8326740.40	8326740.67	8326740.94	0.0275	0.0024	
Jupiter	18105-10-06 05:31	G	8334053.55	8334053.73	8334053.92	0.0497	0.0382	
Uranus	18118-09-29 10:19	G	8338794.81	8338794.93	8338795.11	0.0141	0.0126	
Uranus	18120-09-04 02:52	G	8339500.32	8339500.62	8339500.96	0.0140	0.0034	
Saturn	18129-12-31 23:45	G	8342906.17	8342906.49	8342906.80	0.0284	0.0056	
Neptune	18145-04-18 13:55	G	8348492.81	8348493.08	8348493.41	0.0088	0.0035	
Neptune	18147-03-14 16:33	G	8349187.95	8349188.19	8349188.48	0.0088	0.0051	
Uranus	18162-11-14 00:00	G	8354911.32	8354911.50	8354911.69	0.0138	0.0103	
Uranus	18164-10-13 23:45	G	8355611.21	8355611.49	8355611.78	0.0138	0.0021	
Jupiter	18170-07-09 00:43	G	8357705.28	8357705.53	8357705.77	0.0533	0.0185	
Saturn	18174-02-21 18:57	G	8359029.04	8359029.29	8359029.56	0.0275	0.0076	

Uranus	18203-05-27 11:31 G	8369714.70	8369714.98	8369715.30	0.0140	0.0062
Uranus	18205-05-01 22:04 G	8370420.21	8370420.42	8370420.69	0.0140	0.0096
Saturn	18218-05-28 08:09 G	8375194.52	8375194.84	8375195.16	0.0284	0.0003
Jupiter	18224-03-27 00:00 G	8377324.24	8377324.50	8377324.77	0.0495	0.0191
Neptune	18226-12-31 06:57 G	8378333.49	8378333.79	8378334.09	0.0089	0.0015
Neptune	18228-11-24 16:48 G	8379028.03	8379028.20	8379028.43	0.0089	0.0067
Uranus	18247-07-10 07:55 G	8385829.57	8385829.83	8385830.10	0.0138	0.0054
Uranus	18249-06-09 09:36 G	8386529.66	8386529.90	8386530.15	0.0139	0.0072
Saturn	18262-07-20 00:14 G	8391318.29	8391318.51	8391318.75	0.0275	0.0144
Uranus	18288-01-21 10:33 G	8400634.61	8400634.94	8400635.27	0.0140	0.0002
Saturn	18306-10-22 18:43 G	8407482.97	8407483.28	8407483.60	0.0284	0.0051
Neptune	18308-12-02 22:33 G	8408255.27	8408255.44	8408255.69	0.0088	0.0068
Neptune	18310-10-29 05:02 G	8408950.40	8408950.71	8408951.03	0.0088	0.0019
Jupiter	18324-10-03 20:09 G	8414039.09	8414039.34	8414039.60	0.0534	0.0068
Pluto	18329-07-26 15:36 G	8415795.82	8415796.15	8415796.48	0.0080	0.0003
Uranus	18330-04-04 19:26 G	8416048.21	8416048.31	8416048.42	0.0137	0.0128
Uranus	18332-03-04 14:52 G	8416747.84	8416748.12	8416748.41	0.0138	0.0005
Uranus	18334-02-02 18:43 G	8417448.18	8417448.28	8417448.43	0.0139	0.0125
Saturn	18350-12-14 02:52 G	8423606.42	8423606.62	8423606.84	0.0275	0.0172
Uranus	18370-10-12 15:21 G	8430848.92	8430849.14	8430849.41	0.0141	0.0095
Uranus	18372-09-17 09:21 G	8431554.61	8431554.89	8431555.20	0.0140	0.0066
Jupiter	18378-06-22 08:09 G	8433658.56	8433658.84	8433659.12	0.0495	0.0101
Neptune	18390-08-16 08:24 G	8438096.61	8438096.85	8438097.12	0.0089	0.0047
Neptune	18392-07-10 16:33 G	8438790.93	8438791.19	8438791.49	0.0089	0.0035
Saturn	18395-03-17 16:48 G	8439770.90	8439771.20	8439771.51	0.0284	0.0093
Uranus	18414-11-28 02:24 G	8446966.38	8446966.60	8446966.84	0.0138	0.0079
Uranus	18416-10-28 00:00 G	8447666.24	8447666.50	8447666.77	0.0138	0.0048
Saturn	18439-05-10 03:36 G	8455895.51	8455895.65	8455895.79	0.0275	0.0234
Uranus	18455-06-08 18:28 G	8461768.95	8461769.27	8461769.61	0.0140	0.0030
Uranus	18457-05-14 08:09 G	8462474.73	8462474.84	8462474.98	0.0140	0.0129

Neptune	18474-06-12 12:14 G	8468712.70	8468713.01	8468713.34	0.0088	0.0015
Neptune	18476-05-07 17:31 G	8469408.05	8469408.23	8469408.44	0.0088	0.0070
Jupiter	18478-12-29 12:14 G	8470373.83	8470374.01	8470374.19	0.0533	0.0389
Saturn	18483-08-10 06:43 G	8472058.49	8472058.78	8472059.08	0.0284	0.0113
Jupiter	18496-12-10 14:38 G	8476929.98	8476930.11	8476930.25	0.0493	0.0431
Saturn	18497-08-17 12:14 G	8477179.91	8477180.01	8477180.12	0.0275	0.0252
Uranus	18499-07-23 08:24 G	8477884.59	8477884.85	8477885.14	0.0138	0.0029
Uranus	18501-06-23 10:04 G	8478584.75	8478584.92	8478585.14	0.0139	0.0101
Saturn	18527-10-04 05:45 G	8488183.66	8488183.74	8488183.82	0.0274	0.0261
Jupiter	18532-09-16 15:36 G	8489992.98	8489993.15	8489993.33	0.0495	0.0387
Uranus	18538-02-27 22:04 G	8491983.30	8491983.42	8491983.59	0.0141	0.0127
Uranus	18540-02-03 22:33 G	8492689.13	8492689.44	8492689.78	0.0140	0.0037
Neptune	18554-04-01 08:09 G	8497859.71	8497859.84	8497860.00	0.0089	0.0078
Neptune	18556-02-24 15:50 G	8498553.86	8498554.16	8498554.47	0.0089	0.0003
Neptune	18558-01-19 00:28 G	8499248.45	8499248.52	8499248.65	0.0089	0.0084
Saturn	18572-01-04 17:16 G	8504346.98	8504347.22	8504347.48	0.0284	0.0177
Pluto	18575-12-17 17:31 G	8505789.91	8505790.23	8505790.56	0.0080	0.0014
Uranus	18582-04-17 21:21 G	8508103.23	8508103.39	8508103.61	0.0137	0.0104
Uranus	18584-03-17 17:16 G	8508802.94	8508803.22	8508803.50	0.0138	0.0023
Saturn	18586-01-11 18:43 G	8509468.13	8509468.28	8509468.45	0.0275	0.0220
Jupiter	18597-06-20 03:21 G	8513645.41	8513645.64	8513645.87	0.0535	0.0248
Uranus	18622-10-26 05:02 G	8522903.43	8522903.71	8522904.04	0.0141	0.0061
Uranus	18624-10-01 00:57 G	8523609.34	8523609.54	8523609.79	0.0140	0.0103
Neptune	18638-01-26 18:00 G	8528474.99	8528475.25	8528475.54	0.0088	0.0049
Neptune	18639-12-23 01:26 G	8529170.28	8529170.56	8529170.86	0.0088	0.0037
Jupiter	18651-03-08 15:21 G	8533263.87	8533264.14	8533264.42	0.0493	0.0169
Saturn	18660-05-30 13:55 G	8536634.88	8536635.08	8536635.31	0.0284	0.0210
Uranus	18666-12-12 02:38 G	8539021.36	8539021.61	8539021.88	0.0138	0.0054
Uranus	18668-11-11 01:12 G	8539721.32	8539721.55	8539721.80	0.0138	0.0075
Saturn	18674-06-08 20:38 G	8541757.14	8541757.36	8541757.59	0.0276	0.0148

Uranus	18707-06-23 12:28 G	8553823.68	8553824.02	8553824.35	0.0140	0.0008
Neptune	18719-10-11 15:21 G	8558316.87	8558317.14	8558317.44	0.0089	0.0029
Neptune	18721-09-04 23:02 G	8559011.24	8559011.46	8559011.74	0.0089	0.0052
Uranus	18749-09-06 18:43 G	8569240.20	8569240.28	8569240.40	0.0137	0.0128
Uranus	18751-08-07 12:14 G	8569939.73	8569940.01	8569940.30	0.0138	0.0003
Jupiter	18751-09-15 15:50 G	8569978.91	8569979.16	8569979.42	0.0535	0.0034
Uranus	18753-07-07 12:00 G	8570639.91	8570640.00	8570640.11	0.0139	0.0129
Saturn	18762-11-03 17:16 G	8574045.98	8574046.22	8574046.48	0.0275	0.0091
Uranus	18790-03-13 13:55 G	8584037.85	8584038.08	8584038.36	0.0141	0.0093
Uranus	18792-02-17 15:50 G	8584743.90	8584744.16	8584744.46	0.0140	0.0075
Neptune	18801-09-10 20:09 G	8588237.27	8588237.34	8588237.48	0.0088	0.0084
Neptune	18803-08-07 06:00 G	8588932.42	8588932.75	8588933.07	0.0088	0.0002
Jupiter	18805-06-02 09:36 G	8589597.61	8589597.90	8589598.19	0.0493	0.0071
Neptune	18805-07-02 11:31 G	8589627.94	8589627.98	8589628.07	0.0088	0.0087
Pluto	18822-05-10 06:57 G	8595783.47	8595783.79	8595784.13	0.0080	0.0007
Uranus	18834-05-02 02:38 G	8600158.40	8600158.61	8600158.86	0.0137	0.0078
Uranus	18836-03-31 20:24 G	8600858.09	8600858.35	8600858.62	0.0138	0.0050
Saturn	18851-03-30 20:09 G	8606335.08	8606335.34	8606335.61	0.0276	0.0016
Uranus	18874-11-07 22:48 G	8614958.12	8614958.45	8614958.78	0.0141	0.0024
Neptune	18883-05-26 16:19 G	8618079.98	8618080.18	8618080.42	0.0089	0.0061
Neptune	18885-04-19 21:36 G	8618774.12	8618774.40	8618774.71	0.0089	0.0019
Saturn	18895-06-23 22:33 G	8622491.35	8622491.44	8622491.53	0.0283	0.0271
Jupiter	18905-12-10 08:52 G	8626312.63	8626312.87	8626313.11	0.0534	0.0198
Uranus	18918-12-26 12:28 G	8631076.75	8631077.02	8631077.30	0.0137	0.0026
Uranus	18920-11-25 07:40 G	8631776.66	8631776.82	8631777.02	0.0138	0.0106
Saturn	18939-08-26 05:02 G	8638624.45	8638624.71	8638624.98	0.0275	0.0061
Uranus	18957-07-29 21:36 G	8645172.27	8645172.40	8645172.57	0.0141	0.0127
Uranus	18959-07-06 06:00 G	8645878.45	8645878.75	8645879.08	0.0140	0.0046
Jupiter	18959-08-27 22:19 G	8645931.21	8645931.43	8645931.67	0.0494	0.0298
Neptune	18967-03-22 07:40 G	8648694.52	8648694.82	8648695.12	0.0088	0.0033

Neptune	18969-02-14 15:36 G	8649389.92	8649390.15	8649390.44	0.0088	0.0053
Saturn	18983-11-20 04:48 G	8654781.43	8654781.70	8654781.99	0.0283	0.0147

20TH MILLENNIUM CE

This is a list of transits of Mars in the 20th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	19001-09-21 06:43 G		8661295.61	8661295.78	8661295.99	0.0137	0.0100	
Uranus	19003-08-21 21:21 G		8661995.11	8661995.39	8661995.67	0.0138	0.0028	
Jupiter	19024-05-31 18:14 G		8669584.15	8669584.26	8669584.37	0.0536	0.0477	
Saturn	19028-01-21 01:26 G		8670913.32	8670913.56	8670913.81	0.0276	0.0121	
Uranus	19042-03-27 11:02 G		8676092.67	8676092.96	8676093.29	0.0141	0.0055	
Uranus	19044-03-02 14:52 G		8676798.96	8676799.12	8676799.34	0.0140	0.0115	
Neptune	19048-12-04 21:07 G		8678537.09	8678537.38	8678537.68	0.0089	0.0014	
Neptune	19050-10-30 02:24 G		8679231.43	8679231.60	8679231.83	0.0089	0.0066	
Jupiter	19060-03-05 22:48 G		8682646.30	8682646.45	8682646.61	0.0535	0.0425	
Pluto	19068-09-30 11:02 G		8685776.76	8685776.96	8685777.22	0.0080	0.0058	
Saturn	19072-04-15 23:16 G		8687070.16	8687070.47	8687070.78	0.0283	0.0077	
Jupiter	19078-02-15 07:40 G		8689201.59	8689201.82	8689202.05	0.0492	0.0303	
Uranus	19086-05-16 16:19 G		8692213.92	8692214.18	8692214.45	0.0137	0.0047	
Uranus	19088-04-15 08:52 G		8692913.66	8692913.87	8692914.12	0.0138	0.0083	
Saturn	19116-06-17 11:45 G		8703202.80	8703202.99	8703203.18	0.0275	0.0195	
Uranus	19126-11-23 00:14 G		8707013.18	8707013.51	8707013.85	0.0141	0.0017	
Neptune	19130-11-05 04:48 G		8708456.52	8708456.70	8708456.94	0.0088	0.0069	

Neptune	19132-09-30 16:19 G	8709151.86	8709152.18	8709152.50	0.0088	0.0017
Saturn	19160-09-10 23:31 G	8719359.16	8719359.48	8719359.80	0.0284	0.0005
Uranus	19169-02-09 12:00 G	8722432.91	8722433.00	8722433.15	0.0137	0.0123
Uranus	19171-01-10 00:00 G	8723132.22	8723132.50	8723132.78	0.0137	0.0005
Uranus	19172-12-09 18:57 G	8723832.28	8723832.29	8723832.35	0.0138	0.0138
Jupiter	19178-08-26 10:19 G	8725917.70	8725917.93	8725918.16	0.0537	0.0244
Saturn	19204-11-10 19:40 G	8735491.19	8735491.32	8735491.48	0.0275	0.0233
Uranus	19209-08-13 02:38 G	8737227.35	8737227.61	8737227.89	0.0142	0.0086
Uranus	19211-07-20 12:00 G	8737933.76	8737934.00	8737934.28	0.0141	0.0089
Neptune	19212-07-20 20:24 G	8738300.10	8738300.35	8738300.61	0.0089	0.0047
Neptune	19214-06-15 00:57 G	8738994.28	8738994.54	8738994.84	0.0089	0.0033
Pluto	19227-07-31 11:16 G	8743788.80	8743788.97	8743789.19	0.0065	0.0049
Jupiter	19232-05-12 10:33 G	8745535.65	8745535.94	8745536.24	0.0492	0.0025
Saturn	19249-02-04 01:55 G	8751647.26	8751647.58	8751647.90	0.0284	0.0044
Uranus	19253-10-04 20:24 G	8753351.13	8753351.35	8753351.61	0.0137	0.0071
Uranus	19255-09-04 10:48 G	8754050.70	8754050.95	8754051.21	0.0138	0.0059
Saturn	19263-02-19 10:48 G	8756775.85	8756775.95	8756776.06	0.0276	0.0251
Uranus	19294-04-09 17:16 G	8768147.89	8768148.22	8768148.57	0.0141	0.0013
Neptune	19296-05-14 12:43 G	8768913.72	8768914.03	8768914.37	0.0088	0.0020
Neptune	19298-04-09 21:50 G	8769609.23	8769609.41	8769609.67	0.0088	0.0066
Jupiter	19332-11-21 00:28 G	8782252.27	8782252.52	8782252.78	0.0536	0.0075
Saturn	19337-06-30 18:43 G	8783934.98	8783935.28	8783935.60	0.0284	0.0069
Uranus	19338-05-31 05:45 G	8784269.46	8784269.74	8784270.02	0.0137	0.0019
Uranus	19340-04-29 20:24 G	8784969.21	8784969.35	8784969.53	0.0138	0.0113
Saturn	19351-07-17 11:45 G	8789064.81	8789064.99	8789065.20	0.0276	0.0186
Neptune	19376-03-05 19:55 G	8798063.21	8798063.33	8798063.47	0.0089	0.0080
Uranus	19376-12-29 13:26 G	8798361.91	8798362.06	8798362.27	0.0142	0.0120
Neptune	19378-01-28 21:50 G	8798757.11	8798757.41	8798757.71	0.0089	0.0002
Uranus	19378-12-06 04:48 G	8799068.41	8799068.70	8799069.02	0.0141	0.0059
Neptune	19379-12-24 02:38 G	8799451.48	8799451.61	8799451.77	0.0089	0.0078

Jupiter	19386-08-07 18:28 G	8801870.04	8801870.27	8801870.52	0.0492	0.0271
Uranus	19421-02-24 07:12 G	8814488.61	8814488.80	8814489.02	0.0136	0.0093
Uranus	19423-01-24 17:16 G	8815187.96	8815188.22	8815188.50	0.0137	0.0036
Saturn	19425-11-24 22:04 G	8816223.14	8816223.42	8816223.72	0.0284	0.0122
Saturn	19439-12-11 14:52 G	8821352.91	8821353.12	8821353.35	0.0275	0.0160
Neptune	19459-12-29 06:00 G	8828675.53	8828675.75	8828676.03	0.0088	0.0056
Uranus	19461-08-27 05:16 G	8829282.41	8829282.72	8829283.05	0.0142	0.0046
Neptune	19461-11-23 18:57 G	8829371.00	8829371.29	8829371.62	0.0088	0.0030
Uranus	19463-08-03 15:36 G	8829989.06	8829989.15	8829989.30	0.0141	0.0131
Pluto	19473-12-21 21:36 G	8833782.10	8833782.40	8833782.70	0.0064	0.0009
Jupiter	19487-02-16 01:55 G	8838586.38	8838586.58	8838586.78	0.0536	0.0344
Jupiter	19505-01-27 17:31 G	8845141.00	8845141.23	8845141.48	0.0491	0.0285
Uranus	19505-10-20 16:48 G	8845406.94	8845407.20	8845407.48	0.0137	0.0040
Uranus	19507-09-20 04:04 G	8846106.47	8846106.67	8846106.89	0.0137	0.0092
Saturn	19514-04-20 10:19 G	8848510.66	8848510.93	8848511.22	0.0283	0.0141
Saturn	19528-05-07 12:28 G	8853641.77	8853642.02	8853642.27	0.0276	0.0096
Neptune	19541-09-14 20:52 G	8858520.11	8858520.37	8858520.66	0.0089	0.0034
Neptune	19543-08-09 23:16 G	8859214.23	8859214.47	8859214.75	0.0089	0.0044
Uranus	19546-04-24 19:40 G	8860202.99	8860203.32	8860203.65	0.0141	0.0028
Uranus	19588-07-15 22:04 G	8875626.28	8875626.42	8875626.59	0.0136	0.0113
Uranus	19590-06-15 05:16 G	8876325.44	8876325.72	8876326.00	0.0137	0.0016
Saturn	19602-09-14 14:38 G	8880799.95	8880800.11	8880800.31	0.0283	0.0233
Jupiter	19605-08-07 17:16 G	8881858.02	8881858.22	8881858.43	0.0538	0.0326
Saturn	19616-10-01 01:40 G	8885930.31	8885930.57	8885930.84	0.0276	0.0051
Neptune	19625-07-08 10:33 G	8889132.62	8889132.94	8889133.28	0.0088	0.0009
Neptune	19627-06-03 22:19 G	8889828.30	8889828.43	8889828.62	0.0088	0.0077
Uranus	19629-01-12 19:12 G	8890417.03	8890417.30	8890417.59	0.0142	0.0078
Uranus	19630-12-20 12:00 G	8891123.78	8891124.00	8891124.24	0.0141	0.0103
Jupiter	19659-04-23 18:57 G	8901475.00	8901475.29	8901475.59	0.0491	0.0016
Uranus	19673-03-10 06:28 G	8906544.53	8906544.77	8906545.03	0.0136	0.0060

Uranus	19675-02-07 15:36 G	8907243.92	8907244.15	8907244.40	0.0137	0.0072
Saturn	19705-02-26 01:26 G	8918219.29	8918219.56	8918219.82	0.0277	0.0019
Neptune	19705-04-30 17:16 G	8918283.04	8918283.22	8918283.43	0.0089	0.0067
Neptune	19707-03-25 19:55 G	8918977.03	8918977.33	8918977.62	0.0089	0.0010
Neptune	19709-02-16 22:48 G	8919671.45	8919671.45	8919671.48	0.0089	0.0089
Uranus	19713-09-10 13:26 G	8921337.72	8921338.06	8921338.40	0.0142	0.0003
Uranus	19755-12-05 11:31 G	8936763.98	8936763.98	8936764.05	0.0136	0.0135
Uranus	19757-11-03 16:33 G	8937462.91	8937463.19	8937463.48	0.0137	0.0006
Uranus	19759-10-04 05:02 G	8938162.63	8938162.71	8938162.82	0.0137	0.0129
Jupiter	19759-11-02 12:43 G	8938191.77	8938192.03	8938192.28	0.0537	0.0081
Neptune	19789-02-20 00:00 G	8948894.24	8948894.50	8948894.81	0.0088	0.0045
Neptune	19791-01-16 14:52 G	8949589.83	8949590.12	8949590.42	0.0088	0.0040
Saturn	19793-07-23 07:40 G	8950508.57	8950508.82	8950509.08	0.0276	0.0090
Uranus	19796-05-31 09:21 G	8951551.71	8951551.89	8951552.12	0.0142	0.0113
Uranus	19798-05-08 07:55 G	8952258.55	8952258.83	8952259.13	0.0142	0.0074
Jupiter	19813-07-19 09:07 G	8957808.62	8957808.88	8957809.14	0.0491	0.0225
Saturn	19837-10-08 19:40 G	8966656.18	8966656.32	8966656.47	0.0282	0.0252
Uranus	19840-07-30 19:55 G	8967682.13	8967682.33	8967682.58	0.0136	0.0082
Uranus	19842-06-30 03:50 G	8968381.41	8968381.66	8968381.94	0.0137	0.0050
Neptune	19870-11-08 14:52 G	8978739.85	8978740.12	8978740.42	0.0089	0.0024
Neptune	19872-10-02 17:31 G	8979434.02	8979434.23	8979434.49	0.0089	0.0055
Uranus	19881-01-27 02:24 G	8982472.28	8982472.60	8982472.94	0.0142	0.0037
Saturn	19881-12-18 06:14 G	8982797.55	8982797.76	8982797.99	0.0277	0.0156
Jupiter	19914-01-28 00:14 G	8994525.26	8994525.51	8994525.76	0.0538	0.0138
Uranus	19925-03-26 06:57 G	8998600.52	8998600.79	8998601.08	0.0136	0.0027
Saturn	19926-03-05 19:26 G	8998945.07	8998945.31	8998945.58	0.0282	0.0172
Uranus	19927-02-23 15:07 G	8999299.98	8999300.13	8999300.33	0.0137	0.0107
Jupiter	19932-01-07 09:21 G	9001078.73	9001078.89	9001079.06	0.0490	0.0401
Neptune	19952-10-05 12:14 G	9008655.92	9008656.01	9008656.16	0.0088	0.0082
Neptune	19954-09-01 04:33 G	9009351.36	9009351.69	9009352.03	0.0088	0.0003

Neptune	19956-07-27 17:02 G	9010047.20	9010047.21	9010047.30	0.0088	0.0088
Uranus	19965-09-24 20:24 G	9013393.03	9013393.35	9013393.68	0.0142	0.0040
Jupiter	19967-10-13 17:16 G	9014142.12	9014142.22	9014142.34	0.0491	0.0451
Saturn	19970-05-15 19:12 G	9015087.17	9015087.30	9015087.44	0.0276	0.0236

21ST MILLENNIUM CE

This is a list of transits of Mars in the 21st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	20007-12-20 13:26 G		9028819.90	9028820.06	9028820.27	0.0136	0.0103	
Uranus	20009-11-18 18:14 G		9029518.99	9029519.26	9029519.54	0.0136	0.0029	
Saturn	20014-07-31 09:50 G		9031234.60	9031234.91	9031235.23	0.0282	0.0077	
Saturn	20028-08-23 15:50 G		9036372.04	9036372.16	9036372.31	0.0277	0.0237	
Neptune	20034-06-24 13:12 G		9038502.83	9038503.05	9038503.28	0.0089	0.0057	
Neptune	20036-05-18 12:43 G		9039196.76	9039197.03	9039197.34	0.0089	0.0022	
Uranus	20048-06-14 07:55 G		9043606.56	9043606.83	9043607.14	0.0143	0.0075	
Uranus	20050-05-22 08:24 G		9044313.67	9044313.85	9044314.06	0.0142	0.0115	
Jupiter	20068-04-22 22:33 G		9050859.28	9050859.44	9050859.62	0.0537	0.0401	
Jupiter	20086-04-02 03:21 G		9057412.36	9057412.64	9057412.93	0.0490	0.0140	
Uranus	20092-08-14 00:57 G		9059738.28	9059738.54	9059738.81	0.0136	0.0047	
Uranus	20094-07-14 06:14 G		9060437.55	9060437.76	9060437.98	0.0137	0.0087	
Saturn	20102-12-25 21:07 G		9063523.06	9063523.38	9063523.71	0.0283	0.0015	
Saturn	20117-01-18 02:09 G		9068660.42	9068660.59	9068660.79	0.0277	0.0199	
Neptune	20118-04-15 18:14 G		9069112.96	9069113.26	9069113.57	0.0088	0.0033	

Neptune	20120-03-11 09:07 G	9069808.63	9069808.88	9069809.17	0.0088	0.0051
Uranus	20133-02-10 04:19 G	9074527.35	9074527.68	9074528.03	0.0142	0.0006
Uranus	20175-05-11 09:21 G	9089957.79	9089957.89	9089958.03	0.0135	0.0122
Uranus	20177-04-09 11:02 G	9090656.68	9090656.96	9090657.24	0.0136	0.0009
Jupiter	20186-10-13 19:55 G	9094131.11	9094131.33	9094131.56	0.0539	0.0252
Saturn	20191-05-20 22:48 G	9095811.13	9095811.45	9095811.78	0.0283	0.0025
Neptune	20200-01-02 09:50 G	9098959.62	9098959.91	9098960.21	0.0089	0.0013
Neptune	20201-11-27 10:04 G	9099653.72	9099653.92	9099654.13	0.0089	0.0065
Saturn	20205-06-15 06:00 G	9100949.53	9100949.75	9100950.00	0.0277	0.0129
Pluto	20215-01-16 20:52 G	9104452.08	9104452.37	9104452.67	0.0064	0.0001
Uranus	20215-11-01 14:38 G	9104740.93	9104741.11	9104741.35	0.0143	0.0112
Uranus	20217-10-08 20:09 G	9105448.08	9105448.34	9105448.63	0.0142	0.0082
Jupiter	20240-06-28 06:43 G	9113746.50	9113746.78	9113747.07	0.0490	0.0149
Uranus	20260-01-04 16:48 G	9120875.98	9120876.20	9120876.46	0.0136	0.0068
Uranus	20261-12-03 20:09 G	9121575.11	9121575.34	9121575.60	0.0136	0.0067
Saturn	20279-10-14 23:31 G	9128099.18	9128099.48	9128099.81	0.0283	0.0074
Neptune	20281-11-28 06:28 G	9128874.60	9128874.77	9128875.02	0.0088	0.0069
Neptune	20283-10-25 00:43 G	9129570.21	9129570.53	9129570.87	0.0088	0.0016
Saturn	20293-11-08 08:24 G	9133237.61	9133237.85	9133238.11	0.0276	0.0103
Uranus	20300-06-29 13:26 G	9135661.74	9135662.06	9135662.41	0.0143	0.0032
Jupiter	20341-01-08 21:07 G	9150465.12	9150465.38	9150465.63	0.0539	0.0019
Uranus	20344-08-30 01:12 G	9151794.27	9151794.55	9151794.83	0.0136	0.0012
Uranus	20346-07-30 06:57 G	9152493.69	9152493.79	9152493.93	0.0137	0.0123
Jupiter	20358-12-18 02:24 G	9157017.45	9157017.60	9157017.76	0.0489	0.0414
Neptune	20363-08-19 07:55 G	9158722.60	9158722.83	9158723.11	0.0089	0.0046
Neptune	20365-07-13 08:24 G	9159416.59	9159416.85	9159417.15	0.0089	0.0032
Saturn	20368-03-09 06:28 G	9160386.47	9160386.77	9160387.09	0.0283	0.0087
Saturn	20382-04-05 04:33 G	9165526.43	9165526.69	9165526.96	0.0277	0.0041
Uranus	20385-02-24 05:02 G	9166582.39	9166582.71	9166583.03	0.0142	0.0047
Jupiter	20394-09-23 19:12 G	9170081.21	9170081.30	9170081.40	0.0490	0.0464

Uranus	20427-05-26 07:26 G	9182013.62	9182013.81	9182014.04	0.0135	0.0090
Uranus	20429-04-24 09:21 G	9182712.63	9182712.89	9182713.16	0.0136	0.0043
Neptune	20447-06-08 15:36 G	9189331.84	9189332.15	9189332.50	0.0088	0.0020
Neptune	20449-05-04 07:55 G	9190027.64	9190027.83	9190028.09	0.0088	0.0065
Saturn	20456-08-02 22:48 G	9192675.19	9192675.45	9192675.72	0.0282	0.0160
Uranus	20467-11-14 15:50 G	9196795.87	9196796.16	9196796.46	0.0143	0.0071
Uranus	20469-10-21 20:52 G	9197503.23	9197503.37	9197503.55	0.0142	0.0125
Saturn	20470-08-29 12:43 G	9197814.77	9197815.03	9197815.30	0.0277	0.0008
Jupiter	20495-04-05 00:43 G	9206799.32	9206799.53	9206799.74	0.0538	0.0299
Uranus	20512-01-19 15:21 G	9212931.88	9212932.14	9212932.42	0.0136	0.0036
Jupiter	20513-03-14 11:02 G	9213351.67	9213351.96	9213352.25	0.0489	0.0114
Uranus	20513-12-18 18:00 G	9213631.08	9213631.25	9213631.46	0.0136	0.0100
Neptune	20527-04-04 08:52 G	9218485.76	9218485.87	9218486.04	0.0089	0.0078
Neptune	20529-02-26 06:57 G	9219179.49	9219179.79	9219180.08	0.0089	0.0002
Neptune	20531-01-21 06:57 G	9219873.66	9219873.79	9219873.97	0.0089	0.0076
Saturn	20544-12-27 19:12 G	9224963.08	9224963.30	9224963.55	0.0282	0.0196
Pluto	20550-11-17 02:09 G	9227113.40	9227113.59	9227113.85	0.0080	0.0059
Uranus	20552-07-12 03:36 G	9227716.31	9227716.65	9227716.99	0.0143	0.0006
Saturn	20559-01-24 08:24 G	9230103.59	9230103.85	9230104.11	0.0278	0.0057
Uranus	20594-10-14 23:02 G	9243151.33	9243151.46	9243151.63	0.0135	0.0113
Uranus	20596-09-12 23:16 G	9243850.20	9243850.47	9243850.75	0.0136	0.0020
Neptune	20611-01-22 07:55 G	9249093.60	9249093.83	9249094.13	0.0088	0.0053
Neptune	20612-12-18 03:07 G	9249789.35	9249789.63	9249789.97	0.0088	0.0033
Jupiter	20613-09-25 20:52 G	9250071.20	9250071.37	9250071.56	0.0539	0.0379
Uranus	20635-04-02 09:07 G	9257929.69	9257929.88	9257930.09	0.0143	0.0116
Uranus	20637-03-09 17:45 G	9258636.98	9258637.24	9258637.53	0.0142	0.0085
Saturn	20647-06-21 09:07 G	9262392.65	9262392.88	9262393.13	0.0277	0.0117
Jupiter	20667-06-09 06:57 G	9269685.51	9269685.79	9269686.07	0.0489	0.0149
Uranus	20679-06-10 07:26 G	9274069.57	9274069.81	9274070.07	0.0135	0.0059
Uranus	20681-05-09 07:40 G	9274768.61	9274768.82	9274769.07	0.0136	0.0077

Neptune	20692-10-12 10:19 G	9278942.67	9278942.93	9278943.22	0.0089	0.0034
Neptune	20694-09-06 07:55 G	9279636.60	9279636.83	9279637.11	0.0089	0.0044
Pluto	20709-09-19 16:04 G	9285127.88	9285128.17	9285128.47	0.0064	0.0007
Uranus	20719-11-28 23:02 G	9288850.14	9288850.46	9288850.80	0.0143	0.0037
Saturn	20735-11-16 07:26 G	9294681.61	9294681.81	9294682.01	0.0278	0.0182
Uranus	20764-02-03 13:12 G	9304987.77	9304988.05	9304988.33	0.0136	0.0003
Uranus	20766-01-02 15:21 G	9305687.11	9305687.14	9305687.19	0.0136	0.0135
Jupiter	20767-12-21 10:33 G	9306404.70	9306404.94	9306405.19	0.0540	0.0154
Neptune	20774-09-06 00:00 G	9308855.45	9308855.50	9308855.57	0.0088	0.0086
Neptune	20776-08-01 21:21 G	9309551.06	9309551.39	9309551.73	0.0088	0.0002
Neptune	20778-06-28 15:21 G	9310247.05	9310247.14	9310247.28	0.0088	0.0082
Saturn	20780-01-22 08:38 G	9310819.78	9310819.86	9310819.98	0.0281	0.0267
Uranus	20804-07-25 17:02 G	9319770.90	9319771.21	9319771.55	0.0143	0.0044
Jupiter	20821-09-02 14:09 G	9326018.91	9326019.09	9326019.29	0.0489	0.0376
Saturn	20824-04-11 21:36 G	9326971.33	9326971.40	9326971.49	0.0277	0.0264
Uranus	20846-10-29 19:12 G	9335207.09	9335207.30	9335207.53	0.0135	0.0083
Uranus	20848-09-27 18:14 G	9335906.01	9335906.26	9335906.53	0.0136	0.0053
Neptune	20856-05-28 15:07 G	9338705.94	9338706.13	9338706.35	0.0089	0.0064
Neptune	20858-04-22 12:43 G	9339399.75	9339400.03	9339400.34	0.0089	0.0013
Neptune	20860-03-16 10:33 G	9340093.93	9340093.94	9340094.01	0.0089	0.0089
Saturn	20868-06-18 10:04 G	9343109.66	9343109.92	9343110.20	0.0281	0.0157
Saturn	20882-07-21 21:07 G	9348256.22	9348256.38	9348256.57	0.0278	0.0208
Uranus	20887-04-14 21:07 G	9349984.11	9349984.38	9349984.68	0.0143	0.0080
Uranus	20889-03-22 06:00 G	9350691.62	9350691.75	9350691.96	0.0142	0.0124
Jupiter	20922-03-17 05:45 G	9362738.49	9362738.74	9362738.99	0.0539	0.0092
Uranus	20931-06-24 22:48 G	9366125.19	9366125.45	9366125.74	0.0135	0.0030
Uranus	20933-05-24 00:43 G	9366824.37	9366824.53	9366824.70	0.0136	0.0109
Jupiter	20940-02-21 14:38 G	9369288.85	9369289.11	9369289.37	0.0488	0.0247
Neptune	20940-03-16 15:36 G	9369312.85	9369313.15	9369313.47	0.0088	0.0034
Neptune	20942-02-10 11:45 G	9370008.74	9370008.99	9370009.29	0.0088	0.0050

Saturn	20956-11-13 07:40 G	9375398.51	9375398.82	9375399.14	0.0281	0.0081
Saturn	20970-12-16 13:40 G	9380544.86	9380545.07	9380545.29	0.0278	0.0159
Uranus	20971-12-11 13:55 G	9380904.74	9380905.08	9380905.43	0.0143	0.0001

22ND MILLENNIUM CE

This is a list of transits of Mars in the 22nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	21014-03-21 04:33 G		9396344.53	9396344.69	9396344.85	0.0135	0.0110	
Uranus	21016-02-18 03:07 G		9397043.36	9397043.63	9397043.91	0.0136	0.0026	
Neptune	21021-12-07 18:14 G		9399162.99	9399163.26	9399163.56	0.0089	0.0019	
Neptune	21023-11-01 16:33 G		9399856.98	9399857.19	9399857.42	0.0089	0.0058	
Saturn	21045-04-09 23:45 G		9407687.16	9407687.49	9407687.81	0.0281	0.0022	
Uranus	21054-08-31 12:43 G		9411117.88	9411118.03	9411118.18	0.0143	0.0128	
Uranus	21056-08-08 00:43 G		9411825.26	9411825.53	9411825.83	0.0143	0.0080	
Saturn	21059-05-13 23:31 G		9412834.23	9412834.48	9412834.74	0.0278	0.0079	
Jupiter	21076-06-11 02:24 G		9419072.41	9419072.60	9419072.80	0.0540	0.0350	
Jupiter	21094-05-18 12:28 G		9425622.72	9425623.02	9425623.32	0.0488	0.0028	
Uranus	21098-11-13 07:26 G		9427262.57	9427262.81	9427263.07	0.0135	0.0056	
Uranus	21100-10-13 07:26 G		9427961.60	9427961.81	9427962.05	0.0136	0.0083	
Neptune	21103-10-31 09:21 G		9429074.71	9429074.89	9429075.15	0.0088	0.0067	
Neptune	21105-09-26 08:09 G		9429770.52	9429770.84	9429771.18	0.0088	0.0018	
Saturn	21133-09-04 05:45 G		9439975.42	9439975.74	9439976.07	0.0281	0.0035	
Uranus	21139-04-29 00:43 G		9442038.22	9442038.53	9442038.87	0.0143	0.0048	

Saturn	21147-10-08 04:48 G	9445122.44	9445122.70	9445122.96	0.0278	0.0050
Uranus	21183-07-09 12:57 G	9458180.76	9458181.04	9458181.32	0.0135	0.0001
Neptune	21185-07-24 04:33 G	9458926.45	9458926.69	9458926.95	0.0089	0.0047
Neptune	21187-06-18 00:14 G	9459620.24	9459620.51	9459620.79	0.0089	0.0029
Jupiter	21194-12-02 03:36 G	9462344.45	9462344.65	9462344.85	0.0541	0.0319
Pluto	21204-05-21 11:16 G	9465802.82	9465802.97	9465803.16	0.0064	0.0052
Saturn	21222-01-27 14:38 G	9472262.79	9472263.11	9472263.44	0.0281	0.0050
Uranus	21223-12-24 12:14 G	9472958.68	9472959.01	9472959.35	0.0143	0.0032
Saturn	21236-03-03 01:26 G	9477411.30	9477411.56	9477411.83	0.0278	0.0013
Jupiter	21248-08-13 02:09 G	9481957.39	9481957.59	9481957.80	0.0488	0.0353
Uranus	21266-04-03 17:16 G	9488400.02	9488400.22	9488400.46	0.0135	0.0084
Uranus	21268-03-02 15:21 G	9489098.89	9489099.14	9489099.40	0.0136	0.0056
Neptune	21269-05-10 04:04 G	9489532.35	9489532.67	9489533.02	0.0088	0.0015
Neptune	21271-04-06 01:26 G	9490228.38	9490228.56	9490228.79	0.0088	0.0071
Pluto	21293-10-28 13:12 G	9498469.74	9498470.05	9498470.38	0.0080	0.0028
Uranus	21306-09-13 12:14 G	9503171.79	9503172.01	9503172.29	0.0143	0.0097
Uranus	21308-08-21 00:43 G	9503879.35	9503879.53	9503879.76	0.0142	0.0114
Saturn	21310-06-23 21:21 G	9504551.10	9504551.39	9504551.70	0.0281	0.0108
Saturn	21324-07-28 05:45 G	9509699.48	9509699.74	9509700.01	0.0278	0.0039
Jupiter	21349-02-26 10:48 G	9518678.70	9518678.95	9518679.20	0.0540	0.0025
Neptune	21349-03-09 14:52 G	9518689.97	9518690.12	9518690.29	0.0089	0.0075
Uranus	21350-11-27 18:57 G	9519318.02	9519318.29	9519318.57	0.0135	0.0029
Neptune	21351-02-01 10:19 G	9519383.64	9519383.93	9519384.22	0.0089	0.0001
Uranus	21352-10-26 17:45 G	9520017.10	9520017.24	9520017.41	0.0136	0.0113
Neptune	21352-12-26 05:16 G	9520077.59	9520077.72	9520077.91	0.0089	0.0076
Jupiter	21367-02-01 17:31 G	9525227.98	9525228.23	9525228.51	0.0487	0.0227
Uranus	21391-05-11 03:50 G	9534092.32	9534092.66	9534093.01	0.0143	0.0015
Saturn	21398-11-16 06:00 G	9536838.48	9536838.75	9536839.06	0.0281	0.0127
Saturn	21412-12-22 20:38 G	9541988.11	9541988.36	9541988.61	0.0279	0.0095
Neptune	21432-12-23 22:48 G	9549294.19	9549294.45	9549294.77	0.0088	0.0045

Uranus	21433-08-23 21:50 G	9549537.29	9549537.41	9549537.58	0.0135	0.0114
Neptune	21434-11-19 23:45 G	9549990.19	9549990.49	9549990.79	0.0088	0.0040
Uranus	21435-07-23 19:40 G	9550236.05	9550236.32	9550236.60	0.0136	0.0027
Pluto	21452-08-31 22:04 G	9556485.16	9556485.42	9556485.72	0.0064	0.0020
Uranus	21476-01-06 17:02 G	9565012.93	9565013.21	9565013.53	0.0143	0.0068
Saturn	21487-04-13 14:24 G	9569127.91	9569128.10	9569128.32	0.0281	0.0220
Saturn	21501-05-19 14:24 G	9574276.88	9574277.10	9574277.33	0.0278	0.0143
Jupiter	21503-05-25 16:04 G	9575012.95	9575013.17	9575013.39	0.0540	0.0267
Neptune	21514-09-18 21:50 G	9579147.13	9579147.41	9579147.69	0.0089	0.0028
Neptune	21516-08-12 17:16 G	9579840.99	9579841.22	9579841.49	0.0089	0.0047
Uranus	21518-04-18 21:50 G	9580455.16	9580455.41	9580455.66	0.0135	0.0060
Uranus	21520-03-17 20:24 G	9581154.13	9581154.35	9581154.57	0.0136	0.0082
Jupiter	21521-04-29 20:38 G	9581562.07	9581562.36	9581562.66	0.0488	0.0067
Uranus	21558-09-26 16:33 G	9595225.89	9595226.19	9595226.51	0.0143	0.0064
Saturn	21575-09-08 01:26 G	9601416.54	9601416.56	9601416.60	0.0281	0.0279
Saturn	21589-10-13 09:07 G	9606565.71	9606565.88	9606566.07	0.0279	0.0205
Neptune	21596-08-07 17:31 G	9609056.09	9609056.23	9609056.44	0.0088	0.0075
Neptune	21598-07-04 18:57 G	9609751.96	9609752.29	9609752.63	0.0088	0.0009
Uranus	21602-12-11 20:52 G	9611373.09	9611373.37	9611373.65	0.0135	0.0006
Jupiter	21621-11-13 07:55 G	9618284.70	9618284.83	9618284.97	0.0541	0.0449
Uranus	21643-05-24 02:09 G	9626146.25	9626146.59	9626146.93	0.0143	0.0017
Jupiter	21657-08-18 07:12 G	9631346.71	9631346.80	9631346.90	0.0539	0.0498
Jupiter	21675-07-24 05:45 G	9637895.51	9637895.74	9637895.98	0.0488	0.0308
Neptune	21678-05-04 10:04 G	9638910.69	9638910.92	9638911.15	0.0089	0.0055
Neptune	21680-03-28 03:50 G	9639604.38	9639604.66	9639604.95	0.0089	0.0019
Uranus	21685-09-05 23:45 G	9641592.30	9641592.49	9641592.70	0.0135	0.0092
Uranus	21687-08-05 22:04 G	9642291.17	9642291.42	9642291.69	0.0135	0.0050
Saturn	21722-05-08 05:45 G	9654984.60	9654984.74	9654984.92	0.0279	0.0241
Uranus	21726-02-10 19:26 G	9656359.15	9656359.31	9656359.53	0.0143	0.0120
Uranus	21728-01-19 09:07 G	9657066.65	9657066.88	9657067.15	0.0143	0.0098

Saturn	21736-06-18 17:31 G	9660140.06	9660140.23	9660140.43	0.0280	0.0197
Neptune	21762-02-16 14:38 G	9669513.80	9669514.11	9669514.47	0.0088	0.0021
Neptune	21764-01-13 15:21 G	9670209.93	9670210.14	9670210.40	0.0088	0.0063
Uranus	21770-05-02 00:00 G	9672510.24	9672510.50	9672510.78	0.0135	0.0038
Uranus	21772-03-30 22:04 G	9673209.25	9673209.42	9673209.60	0.0136	0.0106
Jupiter	21776-02-08 00:00 G	9674618.28	9674618.50	9674618.74	0.0540	0.0212
Jupiter	21794-01-10 20:52 G	9681165.16	9681165.37	9681165.59	0.0487	0.0345
Saturn	21810-10-03 11:16 G	9687273.71	9687273.97	9687274.26	0.0280	0.0153
Uranus	21810-10-09 06:00 G	9687279.43	9687279.75	9687280.09	0.0143	0.0037
Saturn	21824-11-13 13:26 G	9692428.84	9692429.06	9692429.30	0.0280	0.0141
Neptune	21841-12-19 23:16 G	9698674.39	9698674.47	9698674.63	0.0089	0.0082
Neptune	21843-11-13 17:16 G	9699367.93	9699368.22	9699368.51	0.0089	0.0008
Neptune	21845-10-07 11:02 G	9700061.78	9700061.96	9700062.17	0.0089	0.0067
Uranus	21853-01-26 03:07 G	9702729.55	9702729.63	9702729.76	0.0135	0.0125
Uranus	21854-12-26 00:14 G	9703428.24	9703428.51	9703428.79	0.0135	0.0018
Uranus	21895-06-05 18:14 G	9718199.95	9718200.26	9718200.60	0.0143	0.0046
Saturn	21899-02-27 17:16 G	9719562.90	9719563.22	9719563.53	0.0280	0.0073
Saturn	21913-04-11 05:02 G	9724718.45	9724718.71	9724718.97	0.0280	0.0050
Neptune	21925-10-02 07:55 G	9729275.58	9729275.83	9729276.14	0.0088	0.0051
Neptune	21927-08-29 11:31 G	9729971.67	9729971.98	9729972.30	0.0088	0.0033
Jupiter	21930-05-05 14:38 G	9730951.86	9730952.11	9730952.36	0.0541	0.0025
Uranus	21937-09-21 01:12 G	9733647.33	9733647.55	9733647.81	0.0135	0.0071
Uranus	21939-08-20 22:48 G	9734346.23	9734346.45	9734346.70	0.0136	0.0075
Jupiter	21948-04-07 09:21 G	9737498.59	9737498.89	9737499.19	0.0487	0.0091
Uranus	21978-02-23 17:16 G	9748412.97	9748413.22	9748413.50	0.0143	0.0090
Uranus	21980-02-01 06:57 G	9749120.67	9749120.79	9749120.94	0.0143	0.0130
Saturn	21987-07-25 06:28 G	9751851.44	9751851.77	9751852.09	0.0280	0.0007

23RD MILLENNIUM CE

This is a list of transits of Mars in the 23rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	22001-09-04 15:36	G	9757006.89	9757007.15	9757007.42	0.0279	0.0012	
Neptune	22007-06-30 07:12	G	9759131.54	9759131.80	9759132.07	0.0089	0.0034	
Neptune	22009-05-24 00:57	G	9759825.28	9759825.54	9759825.80	0.0089	0.0040	
Uranus	22022-05-16 00:28	G	9764565.24	9764565.52	9764565.80	0.0135	0.0015	
Uranus	22024-04-13 22:48	G	9765264.40	9765264.45	9765264.54	0.0136	0.0132	
Uranus	22062-10-21 07:40	G	9779333.48	9779333.82	9779334.16	0.0143	0.0005	
Saturn	22075-12-17 22:48	G	9784139.12	9784139.45	9784139.77	0.0280	0.0020	
Jupiter	22084-07-29 12:57	G	9787285.83	9787286.04	9787286.26	0.0541	0.0292	
Neptune	22089-05-16 00:57	G	9789037.45	9789037.54	9789037.72	0.0088	0.0081	
Saturn	22090-01-29 16:33	G	9789295.94	9789296.19	9789296.45	0.0280	0.0061	
Neptune	22091-04-12 05:45	G	9789733.41	9789733.74	9789734.09	0.0088	0.0004	
Neptune	22093-03-08 07:26	G	9790429.80	9790429.81	9790429.90	0.0088	0.0088	
Jupiter	22102-07-03 18:14	G	9793833.01	9793833.26	9793833.54	0.0487	0.0230	
Uranus	22105-02-09 00:43	G	9794784.37	9794784.53	9794784.72	0.0135	0.0106	
Uranus	22107-01-08 22:04	G	9795483.16	9795483.42	9795483.69	0.0135	0.0040	
Uranus	22147-06-18 19:40	G	9810254.04	9810254.32	9810254.60	0.0143	0.0079	
Saturn	22164-05-13 02:38	G	9816427.31	9816427.61	9816427.94	0.0280	0.0075	
Neptune	22171-02-13 20:38	G	9818895.16	9818895.36	9818895.59	0.0089	0.0060	
Neptune	22173-01-07 13:26	G	9819588.78	9819589.06	9819589.35	0.0089	0.0013	
Neptune	22174-12-02 07:12	G	9820282.75	9820282.80	9820282.89	0.0089	0.0087	
Saturn	22178-06-25 20:38	G	9821584.11	9821584.36	9821584.61	0.0279	0.0086	
Uranus	22189-10-03 23:31	G	9825702.23	9825702.48	9825702.74	0.0135	0.0050	

Uranus	22191-09-02 22:04 G	9826401.25	9826401.42	9826401.63	0.0135	0.0098
Jupiter	22203-01-20 21:07 G	9830558.21	9830558.38	9830558.57	0.0541	0.0370
Jupiter	22220-12-22 07:12 G	9837103.61	9837103.80	9837104.02	0.0486	0.0360
Uranus	22230-03-08 14:24 G	9840466.80	9840467.10	9840467.42	0.0143	0.0061
Saturn	22252-10-06 06:57 G	9848714.49	9848714.79	9848715.11	0.0279	0.0087
Neptune	22254-11-25 23:16 G	9849495.16	9849495.47	9849495.81	0.0088	0.0026
Neptune	22256-10-22 02:24 G	9850191.38	9850191.60	9850191.89	0.0088	0.0058
Saturn	22266-11-20 08:52 G	9853872.64	9853872.87	9853873.10	0.0280	0.0139
Uranus	22274-05-30 00:14 G	9856620.24	9856620.51	9856620.79	0.0135	0.0007
Uranus	22314-11-04 00:43 G	9871387.20	9871387.53	9871387.88	0.0143	0.0024
Neptune	22334-10-01 12:43 G	9878658.98	9878659.03	9878659.15	0.0089	0.0086
Neptune	22336-08-25 04:33 G	9879352.41	9879352.69	9879352.98	0.0089	0.0013
Neptune	22338-07-19 20:38 G	9880046.17	9880046.36	9880046.59	0.0089	0.0061
Saturn	22341-03-03 03:21 G	9881003.39	9881003.64	9881003.92	0.0279	0.0161
Saturn	22355-04-16 18:43 G	9886161.09	9886161.28	9886161.50	0.0280	0.0174
Uranus	22357-02-23 03:50 G	9886839.45	9886839.66	9886839.88	0.0135	0.0084
Jupiter	22357-04-17 07:55 G	9886892.58	9886892.83	9886893.08	0.0542	0.0055
Uranus	22359-01-23 00:43 G	9887538.29	9887538.53	9887538.78	0.0135	0.0065
Jupiter	22375-03-19 17:16 G	9893437.92	9893438.22	9893438.53	0.0487	0.0039
Uranus	22397-07-23 21:50 G	9901600.23	9901600.41	9901600.63	0.0143	0.0117
Uranus	22399-07-01 13:26 G	9902307.85	9902308.06	9902308.29	0.0143	0.0110
Neptune	22418-07-10 14:38 G	9909256.86	9909257.11	9909257.39	0.0088	0.0056
Neptune	22420-06-05 19:55 G	9909953.03	9909953.33	9909953.68	0.0088	0.0028
Saturn	22429-07-27 02:52 G	9913291.40	9913291.62	9913291.84	0.0279	0.0202
Uranus	22441-10-18 03:07 G	9917757.36	9917757.63	9917757.91	0.0135	0.0027
Saturn	22443-09-10 08:24 G	9918449.70	9918449.85	9918450.02	0.0281	0.0224
Uranus	22443-09-17 00:00 G	9918456.41	9918456.50	9918456.64	0.0136	0.0124
Pluto	22443-11-22 07:26 G	9918522.62	9918522.81	9918523.05	0.0064	0.0043
Uranus	22482-03-20 14:52 G	9932520.79	9932521.12	9932521.46	0.0143	0.0029
Neptune	22500-04-10 18:43 G	9939116.05	9939116.28	9939116.57	0.0089	0.0040

Saturn	22501-12-19 16:04 G	9939734.16	9939734.17	9939734.18	0.0282	0.0282
Neptune	22502-03-05 10:48 G	9939809.69	9939809.95	9939810.22	0.0089	0.0034
Jupiter	22511-07-13 04:33 G	9943226.46	9943226.69	9943226.92	0.0541	0.0199
Uranus	22524-07-14 07:55 G	9947976.70	9947976.83	9947976.96	0.0135	0.0118
Uranus	22526-06-13 03:36 G	9948675.39	9948675.65	9948675.94	0.0135	0.0032
Jupiter	22529-06-13 09:50 G	9949771.65	9949771.91	9949772.18	0.0487	0.0231
Pluto	22533-04-27 00:14 G	9951185.24	9951185.51	9951185.84	0.0080	0.0038
Uranus	22566-11-16 07:40 G	9963441.52	9963441.82	9963442.14	0.0143	0.0060
Neptune	22582-02-22 04:33 G	9969018.66	9969018.69	9969018.80	0.0088	0.0086
Neptune	22584-01-19 12:00 G	9969714.66	9969715.00	9969715.34	0.0088	0.0002
Neptune	22585-12-15 16:48 G	9970411.10	9970411.20	9970411.36	0.0088	0.0081
Saturn	22590-05-16 05:16 G	9972023.54	9972023.72	9972023.91	0.0282	0.0199
Uranus	22609-03-09 06:00 G	9978894.50	9978894.75	9978895.00	0.0135	0.0061
Uranus	22611-02-06 02:52 G	9979593.42	9979593.62	9979593.84	0.0135	0.0090
Jupiter	22630-01-02 01:40 G	9986498.50	9986498.57	9986498.66	0.0541	0.0513
Jupiter	22647-12-01 21:36 G	9993041.27	9993041.40	9993041.53	0.0486	0.0439
Uranus	22649-08-06 09:50 G	9993654.64	9993654.91	9993655.21	0.0144	0.0081
Neptune	22663-11-26 09:21 G	9998879.70	9998879.89	9998880.09	0.0089	0.0065
Saturn	22664-08-21 12:28 G	9999148.83	9999149.02	9999149.20	0.0278	0.0227
Jupiter	22665-10-06 20:52 G	9999560.23	9999560.37	9999560.51	0.0541	0.0443
Neptune	22665-10-20 01:12 G	9999573.27	9999573.55	9999573.85	0.0089	0.0008
Neptune	22667-09-13 17:31 G	10000267.12	10000267.23	10000267.38	0.0089	0.0080
Saturn	22678-10-11 03:21 G	10004312.42	10004312.64	10004312.88	0.0282	0.0140
Jupiter	22683-09-07 14:52 G	10006105.04	10006105.12	10006105.22	0.0487	0.0466
Pluto	22692-03-03 03:07 G	10009204.35	10009204.63	10009204.92	0.0064	0.0017
Uranus	22693-11-01 05:45 G	10009812.47	10009812.74	10009813.02	0.0135	0.0004
Uranus	22734-04-04 00:57 G	10024575.20	10024575.54	10024575.89	0.0143	0.0008
Neptune	22747-09-04 01:26 G	10029476.24	10029476.56	10029476.88	0.0088	0.0032
Neptune	22749-07-31 06:28 G	10030172.52	10030172.77	10030173.09	0.0088	0.0051
Saturn	22753-01-17 07:12 G	10031438.51	10031438.80	10031439.09	0.0278	0.0130

Saturn	22767-03-09 00:14 G	10036602.25	10036602.51	10036602.78	0.0282	0.0040
Uranus	22776-07-28 09:07 G	10040031.71	10040031.88	10040032.10	0.0134	0.0097
Uranus	22778-06-27 06:43 G	10040730.52	10040730.78	10040731.03	0.0135	0.0054
Pluto	22781-08-06 04:48 G	10041866.36	10041866.70	10041867.04	0.0080	0.0001
Jupiter	22784-03-28 14:09 G	10042831.88	10042832.09	10042832.30	0.0542	0.0291
Jupiter	22802-02-25 03:21 G	10049374.37	10049374.64	10049374.93	0.0486	0.0202
Uranus	22816-12-21 21:36 G	10054788.34	10054788.40	10054788.53	0.0144	0.0138
Uranus	22818-11-29 13:26 G	10055495.83	10055496.06	10055496.33	0.0143	0.0097
Neptune	22829-06-05 14:52 G	10059336.85	10059337.12	10059337.41	0.0089	0.0020
Neptune	22831-04-30 06:14 G	10060030.53	10060030.76	10060031.00	0.0089	0.0053
Saturn	22841-06-13 08:24 G	10063727.53	10063727.85	10063728.17	0.0278	0.0048
Saturn	22855-08-02 18:00 G	10068890.99	10068891.25	10068891.52	0.0281	0.0010
Uranus	22861-03-22 12:00 G	10070949.73	10070950.00	10070950.27	0.0135	0.0038
Uranus	22863-02-19 08:38 G	10071648.72	10071648.86	10071649.01	0.0135	0.0115
Uranus	22901-08-19 11:45 G	10085708.68	10085708.99	10085709.32	0.0144	0.0049
Neptune	22911-04-18 12:14 G	10089237.79	10089238.01	10089238.27	0.0088	0.0063
Neptune	22913-03-14 20:24 G	10089934.02	10089934.35	10089934.69	0.0088	0.0020
Saturn	22929-11-07 15:07 G	10096015.80	10096016.13	10096016.46	0.0278	0.0002
Jupiter	22938-06-23 08:09 G	10099165.59	10099165.84	10099166.09	0.0542	0.0044
Pluto	22940-06-12 20:52 G	10099886.08	10099886.37	10099886.67	0.0064	0.0004
Uranus	22943-12-17 16:33 G	10101169.15	10101169.19	10101169.28	0.0134	0.0130
Saturn	22943-12-29 00:43 G	10101180.28	10101180.53	10101180.78	0.0282	0.0092
Uranus	22945-11-15 13:12 G	10101867.78	10101868.05	10101868.33	0.0135	0.0022
Jupiter	22956-05-22 06:57 G	10105708.50	10105708.79	10105709.09	0.0486	0.0105
Uranus	22986-04-16 05:02 G	10116629.39	10116629.71	10116630.05	0.0144	0.0043
Neptune	22993-01-20 05:02 G	10119100.48	10119100.71	10119100.98	0.0089	0.0046
Neptune	22994-12-14 18:57 G	10119794.02	10119794.29	10119794.58	0.0089	0.0026

24TH MILLENNIUM CE

This is a list of transits of Mars in the 24th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	23018-04-03 22:19	G	10128304.12	10128304.43	10128304.76	0.0278	0.0056	
Uranus	23028-08-11 20:24	G	10132087.12	10132087.35	10132087.60	0.0134	0.0071	
Pluto	23029-11-15 10:33	G	10132547.69	10132547.94	10132548.27	0.0080	0.0043	
Uranus	23030-07-11 16:33	G	10132785.98	10132786.19	10132786.42	0.0135	0.0083	
Saturn	23032-05-24 06:43	G	10133468.54	10133468.78	10133469.03	0.0281	0.0121	
Uranus	23069-01-04 09:21	G	10146842.65	10146842.89	10146843.13	0.0144	0.0102	
Uranus	23070-12-13 00:00	G	10147550.42	10147550.50	10147550.64	0.0143	0.0135	
Neptune	23076-10-27 05:02	G	10149695.37	10149695.71	10149696.06	0.0088	0.0011	
Neptune	23078-09-23 12:14	G	10150391.84	10150392.01	10150392.23	0.0088	0.0072	
Jupiter	23092-09-17 22:19	G	10155500.22	10155500.43	10155500.64	0.0542	0.0290	
Saturn	23106-08-28 01:55	G	10160591.27	10160591.58	10160591.90	0.0278	0.0066	
Jupiter	23110-08-18 20:38	G	10162043.25	10162043.36	10162043.49	0.0486	0.0446	
Uranus	23113-04-06 21:21	G	10163005.11	10163005.39	10163005.67	0.0135	0.0011	
Saturn	23120-10-18 19:55	G	10165757.13	10165757.33	10165757.55	0.0282	0.0175	
Uranus	23153-09-02 06:57	G	10177763.45	10177763.79	10177764.13	0.0144	0.0009	
Neptune	23156-09-06 18:00	G	10178864.12	10178864.25	10178864.45	0.0089	0.0073	
Neptune	23158-08-01 08:52	G	10179557.58	10179557.87	10179558.16	0.0089	0.0001	
Neptune	23160-06-24 22:19	G	10180251.29	10180251.43	10180251.64	0.0089	0.0071	
Pluto	23188-09-22 11:02	G	10190567.69	10190567.96	10190568.25	0.0064	0.0016	
Saturn	23195-01-21 11:45	G	10192879.71	10192879.99	10192880.29	0.0277	0.0124	
Uranus	23196-01-01 03:21	G	10193224.49	10193224.64	10193224.84	0.0134	0.0105	
Uranus	23197-11-29 23:45	G	10193923.24	10193923.49	10193923.76	0.0135	0.0051	

Saturn	23209-03-14 01:40 G	10198045.39	10198045.57	10198045.76	0.0282	0.0202
Jupiter	23211-03-11 07:12 G	10198772.63	10198772.80	10198772.98	0.0542	0.0389
Jupiter	23229-02-05 06:14 G	10205313.47	10205313.76	10205314.05	0.0486	0.0161
Uranus	23238-04-30 03:36 G	10208684.39	10208684.65	10208684.93	0.0144	0.0086
Neptune	23240-06-10 11:02 G	10209456.67	10209456.96	10209457.27	0.0088	0.0043
Neptune	23242-05-07 19:12 G	10210153.02	10210153.30	10210153.63	0.0088	0.0040
Pluto	23278-02-23 03:07 G	10223228.39	10223228.63	10223228.94	0.0080	0.0048
Uranus	23280-08-25 05:16 G	10224142.45	10224142.72	10224142.98	0.0134	0.0044
Uranus	23282-07-25 02:38 G	10224841.47	10224841.61	10224841.78	0.0135	0.0112
Saturn	23283-06-15 23:31 G	10225167.22	10225167.48	10225167.77	0.0277	0.0149
Saturn	23297-08-07 11:02 G	10230333.85	10230333.96	10230334.11	0.0283	0.0246
Uranus	23321-01-18 05:16 G	10238897.42	10238897.72	10238898.03	0.0144	0.0062
Neptune	23322-03-17 19:12 G	10239321.04	10239321.30	10239321.58	0.0089	0.0029
Neptune	23324-02-09 09:07 G	10240014.64	10240014.88	10240015.15	0.0089	0.0043
Saturn	23355-11-16 06:57 G	10251617.76	10251617.79	10251617.84	0.0284	0.0281
Uranus	23365-04-20 10:04 G	10255060.65	10255060.92	10255061.21	0.0134	0.0019
Jupiter	23365-06-05 09:07 G	10255106.64	10255106.88	10255107.12	0.0541	0.0109
Saturn	23371-11-11 10:48 G	10257456.81	10257456.95	10257457.14	0.0277	0.0239
Jupiter	23383-05-03 07:12 G	10261647.51	10261647.80	10261648.09	0.0486	0.0142
Neptune	23404-01-24 13:12 G	10269217.91	10269218.05	10269218.25	0.0088	0.0076
Uranus	23405-09-15 21:21 G	10269818.07	10269818.39	10269818.74	0.0144	0.0031
Neptune	23405-12-21 00:00 G	10269914.15	10269914.50	10269914.84	0.0088	0.0007
Pluto	23437-01-01 22:19 G	10281249.16	10281249.43	10281249.70	0.0064	0.0024
Saturn	23444-04-12 12:14 G	10283906.84	10283907.01	10283907.19	0.0284	0.0211
Uranus	23448-01-15 17:45 G	10285280.01	10285280.24	10285280.48	0.0134	0.0075
Uranus	23449-12-14 13:26 G	10285978.86	10285979.06	10285979.30	0.0135	0.0082
Neptune	23485-11-01 07:12 G	10299084.59	10299084.80	10299085.03	0.0089	0.0056
Neptune	23487-09-25 19:55 G	10299778.06	10299778.33	10299778.62	0.0089	0.0015
Uranus	23488-06-04 22:19 G	10300031.27	10300031.43	10300031.65	0.0144	0.0121
Neptune	23489-08-19 09:36 G	10300471.84	10300471.90	10300472.00	0.0089	0.0086

Uranus	23490-05-13 15:21 G	10300739.00	10300739.14	10300739.32	0.0144	0.0126
Jupiter	23519-09-01 05:02 G	10311440.47	10311440.71	10311440.95	0.0542	0.0152
Pluto	23526-06-04 23:02 G	10313909.27	10313909.46	10313909.70	0.0080	0.0062
Saturn	23532-09-07 07:12 G	10316195.59	10316195.80	10316196.03	0.0284	0.0157
Uranus	23532-09-10 00:14 G	10316198.23	10316198.51	10316198.79	0.0134	0.0011
Jupiter	23537-07-28 14:09 G	10317980.91	10317981.09	10317981.27	0.0487	0.0391
Neptune	23569-08-04 00:00 G	10329675.19	10329675.50	10329675.85	0.0088	0.0026
Neptune	23571-07-01 09:21 G	10330371.66	10330371.89	10330372.18	0.0088	0.0057
Uranus	23573-01-31 20:38 G	10330952.04	10330952.36	10330952.71	0.0144	0.0024
Saturn	23606-12-07 02:09 G	10343314.37	10343314.59	10343314.85	0.0275	0.0183
Uranus	23615-06-06 09:36 G	10346417.73	10346417.90	10346418.08	0.0134	0.0105
Uranus	23617-05-05 04:33 G	10347116.44	10347116.69	10347116.95	0.0134	0.0053
Saturn	23621-02-02 04:33 G	10348485.43	10348485.69	10348485.95	0.0284	0.0055
Neptune	23649-06-17 15:36 G	10358848.08	10358848.15	10358848.28	0.0089	0.0084
Neptune	23651-05-12 05:31 G	10359541.46	10359541.73	10359542.02	0.0089	0.0014
Neptune	23653-04-04 18:00 G	10360235.05	10360235.25	10360235.49	0.0089	0.0058
Jupiter	23656-01-14 18:28 G	10361250.04	10361250.27	10361250.52	0.0486	0.0306
Uranus	23657-09-28 20:09 G	10361873.07	10361873.34	10361873.65	0.0144	0.0077
Jupiter	23673-11-24 09:21 G	10367773.70	10367773.89	10367774.08	0.0541	0.0354
Pluto	23685-04-12 05:31 G	10371930.48	10371930.73	10371931.03	0.0064	0.0022
Saturn	23695-05-03 10:33 G	10375603.64	10375603.94	10375604.25	0.0276	0.0092
Uranus	23700-01-29 14:52 G	10377335.86	10377336.12	10377336.39	0.0134	0.0041
Uranus	23701-12-29 10:19 G	10378034.81	10378034.93	10378035.08	0.0135	0.0118
Saturn	23709-06-30 03:21 G	10380774.37	10380774.64	10380774.90	0.0283	0.0006
Neptune	23733-03-17 22:48 G	10389436.22	10389436.45	10389436.73	0.0088	0.0059
Neptune	23735-02-12 09:50 G	10390132.57	10390132.91	10390133.24	0.0088	0.0023
Uranus	23740-06-19 06:14 G	10392086.48	10392086.76	10392087.07	0.0145	0.0074
Pluto	23774-09-12 03:36 G	10404589.36	10404589.65	10404589.98	0.0080	0.0034
Saturn	23783-09-28 06:43 G	10407892.46	10407892.78	10407893.10	0.0276	0.0026
Uranus	23784-09-23 19:40 G	10408254.05	10408254.32	10408254.60	0.0134	0.0023

Jupiter	23792-05-16 09:07 G	10411045.70	10411045.88	10411046.06	0.0542	0.0370
Saturn	23797-11-24 18:00 G	10413064.00	10413064.25	10413064.50	0.0284	0.0103
Jupiter	23810-04-11 12:43 G	10417583.72	10417584.03	10417584.34	0.0486	0.0021
Neptune	23814-12-27 12:43 G	10419304.79	10419305.03	10419305.29	0.0089	0.0042
Neptune	23816-11-20 02:24 G	10419998.34	10419998.60	10419998.88	0.0089	0.0029
Uranus	23825-02-15 04:33 G	10423007.36	10423007.69	10423008.03	0.0144	0.0025
Uranus	23867-06-21 06:14 G	10438473.54	10438473.76	10438474.02	0.0134	0.0072
Uranus	23869-05-20 02:24 G	10439172.39	10439172.60	10439172.82	0.0134	0.0088
Saturn	23872-02-22 21:36 G	10440181.08	10440181.40	10440181.72	0.0276	0.0042
Saturn	23886-04-21 06:14 G	10445352.53	10445352.76	10445352.99	0.0283	0.0144
Neptune	23898-09-26 07:26 G	10449893.47	10449893.81	10449894.16	0.0088	0.0010
Neptune	23900-08-23 17:02 G	10450590.03	10450590.21	10450590.42	0.0088	0.0072
Uranus	23907-11-06 09:36 G	10453220.77	10453220.90	10453221.07	0.0145	0.0129
Uranus	23909-10-14 01:40 G	10453928.42	10453928.57	10453928.76	0.0144	0.0125
Pluto	23933-07-23 12:43 G	10462611.77	10462612.03	10462612.33	0.0063	0.0017
Jupiter	23946-08-12 18:14 G	10467380.01	10467380.26	10467380.51	0.0542	0.0054
Uranus	23952-02-14 13:26 G	10469391.78	10469392.06	10469392.34	0.0134	0.0007
Saturn	23960-07-18 08:38 G	10472468.55	10472468.86	10472469.18	0.0276	0.0064
Jupiter	23964-07-06 19:26 G	10473918.08	10473918.31	10473918.56	0.0486	0.0306
Saturn	23974-09-16 00:14 G	10477641.33	10477641.51	10477641.70	0.0284	0.0207
Neptune	23978-08-12 22:04 G	10479068.25	10479068.42	10479068.60	0.0089	0.0070
Neptune	23980-07-06 09:36 G	10479761.62	10479761.90	10479762.19	0.0089	0.0000
Neptune	23982-05-30 22:19 G	10480455.28	10480455.43	10480455.63	0.0089	0.0071
Uranus	23992-07-03 01:26 G	10484141.24	10484141.56	10484141.90	0.0145	0.0033

25TH MILLENNIUM CE

This is a list of transits of Mars in the 25th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	24022-12-21 11:16	G	10495269.64	10495269.97	10495270.32	0.0080	0.0012	
Uranus	24034-11-10 01:26	G	10499611.38	10499611.56	10499611.75	0.0134	0.0101	
Uranus	24036-10-08 21:21	G	10500310.15	10500310.39	10500310.65	0.0134	0.0059	
Saturn	24048-12-11 15:36	G	10504756.86	10504757.15	10504757.45	0.0275	0.0116	
Neptune	24062-05-10 04:33	G	10509654.41	10509654.69	10509655.02	0.0088	0.0043	
Saturn	24063-02-09 03:07	G	10509929.48	10509929.63	10509929.79	0.0284	0.0230	
Neptune	24064-04-05 15:50	G	10510350.86	10510351.16	10510351.48	0.0088	0.0039	
Uranus	24077-02-27 23:31	G	10515062.20	10515062.48	10515062.80	0.0145	0.0068	
Jupiter	24082-12-25 04:33	G	10517188.45	10517188.69	10517188.93	0.0486	0.0308	
Jupiter	24100-11-06 21:21	G	10523714.17	10523714.39	10523714.62	0.0541	0.0237	
Uranus	24119-07-06 11:02	G	10530529.69	10530529.96	10530530.24	0.0134	0.0035	
Uranus	24121-06-04 05:45	G	10531228.66	10531228.74	10531228.84	0.0134	0.0126	
Saturn	24137-05-06 20:24	G	10537044.07	10537044.35	10537044.64	0.0275	0.0130	
Neptune	24144-02-20 16:48	G	10539524.95	10539525.20	10539525.49	0.0089	0.0030	
Neptune	24146-01-14 04:48	G	10540218.45	10540218.70	10540218.95	0.0089	0.0041	
Saturn	24151-07-06 08:09	G	10542217.75	10542217.84	10542217.93	0.0285	0.0266	
Uranus	24159-11-19 05:45	G	10545275.48	10545275.74	10545276.01	0.0145	0.0089	
Pluto	24181-10-31 17:16	G	10553292.93	10553293.22	10553293.51	0.0063	0.0001	
Uranus	24202-04-01 22:48	G	10560749.39	10560749.45	10560749.52	0.0133	0.0130	
Uranus	24204-02-29 18:43	G	10561448.01	10561448.28	10561448.56	0.0134	0.0032	
Saturn	24209-10-13 13:55	G	10563501.07	10563501.08	10563501.12	0.0287	0.0285	
Jupiter	24219-04-30 11:45	G	10566986.85	10566986.99	10566987.15	0.0541	0.0431	
Saturn	24225-10-01 17:45	G	10569333.03	10569333.24	10569333.48	0.0275	0.0198	
Neptune	24225-12-23 00:43	G	10569415.39	10569415.53	10569415.74	0.0088	0.0076	
Neptune	24227-11-19 13:26	G	10570111.72	10570112.06	10570112.42	0.0088	0.0007	

Jupiter	24237-03-22 14:38 G	10573522.81	10573523.11	10573523.42	0.0486	0.0030
Uranus	24244-07-17 09:50 G	10576196.57	10576196.91	10576197.25	0.0145	0.0015
Pluto	24271-03-31 03:07 G	10585949.41	10585949.63	10585949.92	0.0080	0.0055
Uranus	24286-11-25 06:43 G	10591667.54	10591667.78	10591668.04	0.0134	0.0064
Uranus	24288-10-24 02:24 G	10592366.42	10592366.60	10592366.79	0.0134	0.0099
Saturn	24298-03-09 10:04 G	10595789.77	10595789.92	10595790.08	0.0286	0.0232
Neptune	24307-10-08 00:28 G	10599288.31	10599288.52	10599288.74	0.0089	0.0057
Neptune	24309-08-31 13:12 G	10599981.77	10599982.05	10599982.34	0.0089	0.0012
Neptune	24311-07-26 00:57 G	10600675.44	10600675.54	10600675.67	0.0089	0.0082
Saturn	24314-02-25 23:16 G	10601621.35	10601621.47	10601621.63	0.0275	0.0247
Uranus	24327-04-07 18:28 G	10606410.25	10606410.27	10606410.36	0.0145	0.0143
Uranus	24329-03-15 09:07 G	10607117.70	10607117.88	10607118.09	0.0145	0.0117
Uranus	24371-07-21 14:38 G	10622585.83	10622586.11	10622586.40	0.0134	0.0004
Jupiter	24373-07-25 14:52 G	10623320.89	10623321.12	10623321.37	0.0542	0.0140
Saturn	24386-08-04 00:00 G	10628078.30	10628078.50	10628078.71	0.0287	0.0188
Jupiter	24391-06-17 05:31 G	10629856.50	10629856.73	10629856.97	0.0487	0.0309
Neptune	24391-07-03 11:31 G	10629872.65	10629872.98	10629873.32	0.0088	0.0026
Neptune	24393-05-29 23:02 G	10630569.19	10630569.46	10630569.73	0.0088	0.0055
Uranus	24411-12-03 19:26 G	10637330.99	10637331.31	10637331.64	0.0145	0.0040
Pluto	24430-02-09 22:04 G	10643974.14	10643974.42	10643974.71	0.0063	0.0016
Uranus	24454-04-16 01:12 G	10652805.35	10652805.55	10652805.75	0.0133	0.0094
Uranus	24456-03-14 22:04 G	10653504.20	10653504.42	10653504.68	0.0134	0.0071
Saturn	24460-10-26 03:07 G	10655190.47	10655190.63	10655190.81	0.0273	0.0231
Neptune	24471-05-23 07:26 G	10659051.76	10659051.81	10659051.92	0.0090	0.0086
Neptune	24473-04-15 19:12 G	10659745.03	10659745.30	10659745.60	0.0089	0.0017
Saturn	24474-12-29 18:28 G	10660368.02	10660368.27	10660368.53	0.0286	0.0090
Neptune	24475-03-10 08:09 G	10660438.62	10660438.84	10660439.08	0.0089	0.0053
Uranus	24496-07-30 10:33 G	10668251.64	10668251.94	10668252.26	0.0145	0.0059
Jupiter	24509-12-04 08:38 G	10673125.70	10673125.86	10673126.04	0.0487	0.0402
Jupiter	24527-10-19 22:04 G	10679654.18	10679654.42	10679654.67	0.0541	0.0072

Uranus	24538-12-10 09:36 G	10683723.63	10683723.90	10683724.18	0.0133	0.0026
Saturn	24549-03-23 16:19 G	10687479.91	10687480.18	10687480.47	0.0273	0.0136
Neptune	24555-02-14 10:19 G	10689633.69	10689633.93	10689634.21	0.0088	0.0058
Neptune	24557-01-10 22:48 G	10690330.13	10690330.45	10690330.80	0.0088	0.0024
Saturn	24563-05-26 19:40 G	10692657.05	10692657.32	10692657.59	0.0286	0.0026
Uranus	24579-04-20 16:04 G	10698464.96	10698465.17	10698465.43	0.0145	0.0103
Uranus	24621-09-05 19:40 G	10713943.24	10713943.32	10713943.44	0.0133	0.0124
Uranus	24623-08-05 18:57 G	10714642.03	10714642.29	10714642.56	0.0134	0.0042
Neptune	24636-12-01 04:19 G	10719508.46	10719508.68	10719508.95	0.0090	0.0045
Saturn	24637-08-19 03:21 G	10719769.32	10719769.64	10719769.96	0.0274	0.0051
Neptune	24638-10-25 16:33 G	10720201.91	10720202.19	10720202.46	0.0089	0.0025
Saturn	24651-10-22 17:31 G	10724946.97	10724947.23	10724947.49	0.0286	0.0084
Uranus	24663-12-17 08:24 G	10729385.51	10729385.85	10729386.19	0.0145	0.0003
Jupiter	24664-02-28 20:38 G	10729459.06	10729459.36	10729459.65	0.0486	0.0136
Pluto	24678-05-22 00:28 G	10734655.30	10734655.52	10734655.76	0.0063	0.0039
Jupiter	24682-01-13 19:26 G	10735988.12	10735988.31	10735988.51	0.0541	0.0342
Uranus	24706-05-02 04:48 G	10744861.46	10744861.70	10744861.97	0.0133	0.0057
Uranus	24708-03-31 01:12 G	10745560.41	10745560.55	10745560.73	0.0134	0.0111
Neptune	24720-08-25 23:16 G	10750091.13	10750091.47	10750091.83	0.0088	0.0008
Neptune	24722-07-23 10:33 G	10750787.79	10750787.94	10750788.17	0.0088	0.0074
Saturn	24726-01-14 05:16 G	10752058.40	10752058.72	10752059.05	0.0274	0.0031
Saturn	24740-03-18 12:57 G	10757235.81	10757236.04	10757236.28	0.0285	0.0137
Uranus	24748-08-14 06:43 G	10760306.57	10760306.78	10760307.04	0.0145	0.0103
Uranus	24790-12-25 11:45 G	10775779.71	10775779.99	10775780.27	0.0134	0.0012
Jupiter	24800-07-05 23:31 G	10779260.31	10779260.48	10779260.66	0.0541	0.0381
Neptune	24800-07-17 14:09 G	10779271.95	10779272.09	10779272.29	0.0090	0.0072
Neptune	24802-06-11 02:52 G	10779965.34	10779965.62	10779965.91	0.0089	0.0003
Neptune	24804-05-04 13:26 G	10780658.90	10780659.06	10780659.28	0.0089	0.0067
Saturn	24814-06-09 04:04 G	10784346.36	10784346.67	10784346.99	0.0274	0.0068
Jupiter	24818-05-25 18:28 G	10785792.98	10785793.27	10785793.56	0.0486	0.0165

Saturn	24828-08-12 15:50 G	10789525.00	10789525.16	10789525.35	0.0286	0.0216
Uranus	24831-05-04 16:33 G	10790519.89	10790520.19	10790520.50	0.0145	0.0059
Uranus	24873-09-19 19:12 G	10805999.09	10805999.30	10805999.51	0.0133	0.0089
Uranus	24875-08-19 17:16 G	10806698.00	10806698.22	10806698.45	0.0134	0.0080
Neptune	24884-04-08 01:26 G	10809852.26	10809852.56	10809852.89	0.0088	0.0038
Neptune	24886-03-05 13:40 G	10810548.79	10810549.07	10810549.40	0.0088	0.0043
Saturn	24902-11-03 12:57 G	10816634.76	10816635.04	10816635.34	0.0273	0.0122
Uranus	24915-12-31 13:55 G	10821440.77	10821441.08	10821441.41	0.0145	0.0046
Saturn	24917-01-06 21:21 G	10821813.27	10821813.39	10821813.54	0.0286	0.0245
Pluto	24926-08-31 05:16 G	10825336.62	10825336.72	10825336.87	0.0063	0.0056
Jupiter	24936-11-13 00:14 G	10829063.44	10829063.51	10829063.61	0.0487	0.0468
Jupiter	24954-10-01 01:40 G	10835594.33	10835594.57	10835594.81	0.0541	0.0098
Uranus	24958-05-16 00:28 G	10836917.24	10836917.52	10836917.80	0.0133	0.0021
Neptune	24966-01-25 12:43 G	10839728.77	10839729.03	10839729.31	0.0090	0.0030
Neptune	24967-12-20 00:43 G	10840422.30	10840422.53	10840422.81	0.0089	0.0040
Saturn	24991-03-28 17:31 G	10848921.96	10848922.23	10848922.52	0.0273	0.0134
Uranus	24998-09-19 20:09 G	10851654.16	10851654.34	10851654.53	0.0145	0.0120

26TH MILLENNIUM CE

This is a list of transits of Mars in the 26th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	25005-06-03 03:07 G		10854101.61	10854101.63	10854101.69	0.0287	0.0284	
Uranus	25041-02-09 04:33 G		10867136.61	10867136.69	10867136.80	0.0133	0.0125	

Uranus	25043-01-09 04:19 G	10867835.43	10867835.68	10867835.96	0.0134	0.0046
Neptune	25047-11-22 04:48 G	10869613.48	10869613.70	10869613.93	0.0088	0.0067
Neptune	25049-10-18 17:02 G	10870309.88	10870310.21	10870310.58	0.0088	0.0014
Saturn	25063-09-09 22:19 G	10875384.41	10875384.43	10875384.46	0.0289	0.0287
Saturn	25079-08-23 07:12 G	10881210.58	10881210.80	10881211.04	0.0272	0.0190
Uranus	25083-05-18 07:40 G	10882574.49	10882574.82	10882575.15	0.0145	0.0020
Jupiter	25091-02-08 16:19 G	10885397.89	10885398.18	10885398.48	0.0487	0.0105
Jupiter	25108-12-27 18:43 G	10891929.06	10891929.28	10891929.50	0.0541	0.0262
Uranus	25125-10-05 09:50 G	10898054.67	10898054.91	10898055.18	0.0133	0.0058
Uranus	25127-09-04 09:21 G	10898753.76	10898753.89	10898754.06	0.0134	0.0113
Neptune	25129-09-12 02:09 G	10899492.40	10899492.59	10899492.84	0.0090	0.0056
Neptune	25131-08-06 13:12 G	10900185.78	10900186.05	10900186.34	0.0089	0.0014
Neptune	25133-06-30 01:26 G	10900879.47	10900879.56	10900879.70	0.0089	0.0082
Saturn	25152-02-04 08:38 G	10907672.73	10907672.86	10907673.00	0.0289	0.0250
Uranus	25168-01-13 16:19 G	10913494.91	10913495.18	10913495.47	0.0145	0.0079
Saturn	25168-01-17 02:38 G	10913498.45	10913498.61	10913498.81	0.0272	0.0223
Uranus	25210-05-30 14:52 G	10928972.84	10928973.12	10928973.41	0.0133	0.0010
Neptune	25213-06-01 22:04 G	10930071.09	10930071.42	10930071.78	0.0088	0.0016
Neptune	25215-04-29 10:33 G	10930767.73	10930767.94	10930768.20	0.0088	0.0065
Jupiter	25227-06-19 03:50 G	10935201.52	10935201.66	10935201.81	0.0541	0.0436
Saturn	25240-06-29 12:57 G	10939960.88	10939961.04	10939961.22	0.0289	0.0222
Jupiter	25245-05-05 15:36 G	10941731.87	10941732.15	10941732.43	0.0487	0.0208
Uranus	25250-10-02 23:16 G	10943708.23	10943708.47	10943708.75	0.0145	0.0089
Jupiter	25263-03-23 14:24 G	10948263.05	10948263.10	10948263.15	0.0541	0.0529
Uranus	25293-02-22 17:45 G	10959192.06	10959192.24	10959192.46	0.0133	0.0096
Neptune	25293-04-27 15:36 G	10959256.06	10959256.15	10959256.31	0.0090	0.0081
Uranus	25295-01-22 18:28 G	10959891.05	10959891.27	10959891.51	0.0134	0.0078
Neptune	25295-03-22 03:36 G	10959949.37	10959949.65	10959949.94	0.0090	0.0012
Neptune	25297-02-12 14:09 G	10960642.87	10960643.09	10960643.31	0.0089	0.0056
Saturn	25314-09-17 05:16 G	10967067.63	10967067.72	10967067.86	0.0271	0.0253

Saturn	25328-11-24 22:04 G	10972250.20	10972250.42	10972250.67	0.0289	0.0139
Uranus	25335-05-31 13:40 G	10974628.74	10974629.07	10974629.40	0.0145	0.0014
Neptune	25377-01-14 02:52 G	10989832.34	10989832.62	10989832.94	0.0088	0.0044
Uranus	25377-10-18 20:52 G	10990110.09	10990110.37	10990110.65	0.0134	0.0028
Neptune	25378-12-11 16:33 G	10990528.90	10990529.19	10990529.53	0.0088	0.0037
Jupiter	25381-09-12 15:36 G	10991534.92	10991535.15	10991535.38	0.0540	0.0203
Jupiter	25399-07-31 02:38 G	10998065.57	10998065.61	10998065.66	0.0487	0.0481
Saturn	25403-02-12 13:26 G	10999356.82	10999357.06	10999357.32	0.0271	0.0167
Saturn	25417-04-21 19:40 G	11004539.07	11004539.32	11004539.59	0.0288	0.0081
Uranus	25420-01-27 06:00 G	11005549.56	11005549.75	11005549.94	0.0145	0.0119
Neptune	25458-11-06 18:28 G	11019713.03	11019713.27	11019713.55	0.0090	0.0037
Neptune	25460-09-30 06:43 G	11020406.53	11020406.78	11020407.06	0.0090	0.0032
Uranus	25462-06-13 23:45 G	11021028.22	11021028.49	11021028.77	0.0134	0.0040
Saturn	25491-07-10 06:14 G	11031646.46	11031646.76	11031647.08	0.0271	0.0075
Uranus	25502-10-17 16:33 G	11035762.89	11035763.19	11035763.51	0.0145	0.0050
Saturn	25505-09-17 21:21 G	11036829.12	11036829.39	11036829.66	0.0289	0.0037
Jupiter	25518-01-18 04:33 G	11041334.43	11041334.69	11041334.96	0.0487	0.0243
Jupiter	25535-12-09 09:07 G	11047868.63	11047868.88	11047869.12	0.0540	0.0061
Neptune	25540-08-29 08:38 G	11049593.70	11049593.86	11049594.11	0.0088	0.0072
Neptune	25542-07-26 23:02 G	11050290.12	11050290.46	11050290.82	0.0088	0.0009
Uranus	25545-03-09 22:33 G	11051247.20	11051247.44	11051247.69	0.0133	0.0069
Uranus	25547-02-07 00:57 G	11051946.37	11051946.54	11051946.71	0.0134	0.0107
Saturn	25579-12-05 17:02 G	11063935.89	11063936.21	11063936.52	0.0271	0.0018
Uranus	25587-06-14 01:55 G	11066683.27	11066683.58	11066683.90	0.0145	0.0052
Saturn	25594-02-11 23:16 G	11069118.22	11069118.47	11069118.72	0.0288	0.0104
Neptune	25622-06-23 10:33 G	11079476.75	11079476.94	11079477.17	0.0090	0.0060
Neptune	25624-05-16 22:04 G	11080170.14	11080170.42	11080170.71	0.0090	0.0008
Neptune	25626-04-10 09:36 G	11080863.77	11080863.90	11080864.08	0.0089	0.0076
Uranus	25629-11-02 00:57 G	11082165.25	11082165.54	11082165.83	0.0133	0.0001
Saturn	25668-04-30 06:57 G	11096224.48	11096224.79	11096225.10	0.0272	0.0077

Uranus	25670-03-03 07:55 G	11096896.66	11096896.83	11096897.01	0.0145	0.0122
Jupiter	25672-04-12 14:52 G	11097667.81	11097668.12	11097668.43	0.0487	0.0026
Saturn	25682-07-09 12:00 G	11101407.82	11101408.00	11101408.20	0.0289	0.0202
Jupiter	25690-03-03 17:31 G	11104202.02	11104202.23	11104202.45	0.0540	0.0271
Neptune	25706-03-10 06:57 G	11110051.45	11110051.79	11110052.14	0.0088	0.0018
Neptune	25708-02-04 20:09 G	11110748.12	11110748.34	11110748.62	0.0088	0.0062
Uranus	25712-07-28 22:48 G	11112384.31	11112384.45	11112384.62	0.0133	0.0112
Uranus	25714-06-28 03:36 G	11113083.41	11113083.65	11113083.90	0.0134	0.0067
Uranus	25754-10-29 12:43 G	11127816.71	11127817.03	11127817.37	0.0145	0.0023
Saturn	25756-09-24 23:45 G	11128513.23	11128513.49	11128513.77	0.0271	0.0141
Saturn	25770-12-03 23:02 G	11133696.33	11133696.46	11133696.61	0.0288	0.0242
Neptune	25786-02-07 04:33 G	11139240.61	11139240.69	11139240.83	0.0090	0.0083
Neptune	25788-01-01 15:50 G	11139933.88	11139934.16	11139934.44	0.0090	0.0015
Neptune	25789-11-25 02:09 G	11140627.38	11140627.59	11140627.84	0.0090	0.0053
Uranus	25797-03-23 02:24 G	11143302.34	11143302.60	11143302.88	0.0133	0.0043
Jupiter	25808-08-25 04:33 G	11147474.55	11147474.69	11147474.85	0.0540	0.0425
Jupiter	25826-07-10 02:09 G	11154002.40	11154002.59	11154002.79	0.0487	0.0377
Uranus	25839-06-26 21:07 G	11158737.13	11158737.38	11158737.68	0.0145	0.0082
Saturn	25845-02-18 08:53 G	11160800.62	11160800.87	11160801.14	0.0271	0.0160
Saturn	25859-04-30 08:38 G	11165984.85	11165984.86	11165984.88	0.0289	0.0288
Neptune	25869-10-22 14:24 G	11169812.83	11169813.10	11169813.43	0.0088	0.0045
Neptune	25871-09-19 04:48 G	11170509.39	11170509.70	11170510.03	0.0088	0.0035
Uranus	25881-11-16 03:36 G	11174220.37	11174220.65	11174220.94	0.0134	0.0025
Uranus	25922-03-17 12:14 G	11188950.76	11188951.01	11188951.28	0.0145	0.0091
Saturn	25933-07-15 16:19 G	11193088.99	11193089.18	11193089.40	0.0270	0.0205
Jupiter	25944-12-28 08:38 G	11197272.61	11197272.86	11197273.13	0.0488	0.0260
Neptune	25951-08-19 10:33 G	11199697.70	11199697.94	11199698.22	0.0090	0.0038
Neptune	25953-07-12 21:50 G	11200391.16	11200391.41	11200391.70	0.0089	0.0031
Jupiter	25962-11-20 22:19 G	11203809.19	11203809.43	11203809.68	0.0540	0.0058
Uranus	25964-08-12 00:29 G	11204439.33	11204439.52	11204439.76	0.0133	0.0088

Uranus 25966-07-12 05:02 G 11205138.53 11205138.71 11205138.93 0.0134 0.0095

27TH MILLENNIUM CE

This is a list of transits of Mars in the 27th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	26005-12-30 18:14	G	11219555.19	11219555.26	11219555.35	0.0291	0.0277	
Uranus	26006-11-12 00:00	G	11219871.18	11219871.50	11219871.84	0.0145	0.0015	
Saturn	26021-12-08 02:09	G	11225376.42	11225376.59	11225376.78	0.0270	0.0223	
Neptune	26033-06-06 01:12	G	11229574.37	11229574.55	11229574.79	0.0088	0.0070	
Neptune	26035-05-03 14:53	G	11230270.77	11230271.12	11230271.47	0.0088	0.0009	
Uranus	26049-04-06 01:12	G	11235357.26	11235357.55	11235357.83	0.0134	0.0019	
Uranus	26091-07-09 09:50	G	11250791.73	11250791.91	11250792.09	0.0145	0.0120	
Saturn	26094-05-25 13:55	G	11251842.98	11251843.08	11251843.21	0.0291	0.0264	
Jupiter	26099-03-24 16:19	G	11253606.88	11253607.18	11253607.49	0.0488	0.0086	
Neptune	26115-04-05 04:19	G	11259461.49	11259461.68	11259461.92	0.0090	0.0060	
Jupiter	26117-02-15 00:57	G	11260143.32	11260143.54	11260143.76	0.0539	0.0243	
Neptune	26117-02-26 16:19	G	11260154.90	11260155.18	11260155.47	0.0090	0.0008	
Neptune	26119-01-21 03:36	G	11260848.51	11260848.65	11260848.83	0.0089	0.0075	
Uranus	26133-11-30 01:41	G	11266275.32	11266275.57	11266275.85	0.0134	0.0050	
Saturn	26168-08-08 02:24	G	11278945.52	11278945.60	11278945.71	0.0269	0.0256	
Uranus	26174-03-29 20:09	G	11281005.05	11281005.34	11281005.66	0.0145	0.0058	
Saturn	26182-10-20 12:29	G	11284131.83	11284132.02	11284132.23	0.0291	0.0200	
Neptune	26198-12-16 01:12	G	11290032.21	11290032.55	11290032.90	0.0088	0.0016	

Neptune	26200-11-12 14:09 G	11290728.87	11290729.09	11290729.36	0.0088	0.0063
Uranus	26216-08-25 20:38 G	11296494.11	11296494.36	11296494.61	0.0133	0.0066
Uranus	26218-07-26 02:38 G	11297193.50	11297193.61	11297193.77	0.0134	0.0118
Jupiter	26235-08-08 08:09 G	11303415.72	11303415.84	11303415.96	0.0539	0.0468
Jupiter	26253-06-19 12:43 G	11309940.87	11309941.03	11309941.22	0.0488	0.0394
Saturn	26257-01-03 03:21 G	11311234.43	11311234.64	11311234.89	0.0269	0.0183
Uranus	26258-11-24 20:53 G	11311925.06	11311925.37	11311925.70	0.0145	0.0043
Pluto	26259-05-01 11:02 G	11312082.81	11312082.96	11312083.19	0.0081	0.0068
Saturn	26271-03-17 02:53 G	11316420.40	11316420.62	11316420.86	0.0291	0.0154
Neptune	26278-11-20 00:14 G	11319225.42	11319225.51	11319225.66	0.0090	0.0082
Neptune	26280-10-13 12:14 G	11319918.74	11319919.01	11319919.30	0.0090	0.0014
Neptune	26282-09-06 23:02 G	11320612.25	11320612.46	11320612.71	0.0089	0.0053
Uranus	26301-04-20 23:17 G	11327412.19	11327412.47	11327412.76	0.0133	0.0004
Uranus	26341-08-15 10:05 G	11342138.82	11342138.92	11342139.04	0.0145	0.0136
Saturn	26345-05-31 23:17 G	11343524.17	11343524.47	11343524.77	0.0269	0.0089
Saturn	26359-08-13 03:36 G	11348710.38	11348710.65	11348710.92	0.0291	0.0039
Neptune	26362-07-31 11:31 G	11349793.70	11349793.98	11349794.31	0.0088	0.0042
Neptune	26364-06-27 00:57 G	11350490.25	11350490.54	11350490.89	0.0088	0.0038
Jupiter	26371-12-07 16:05 G	11353209.96	11353210.17	11353210.39	0.0488	0.0340
Uranus	26384-01-14 15:50 G	11357631.03	11357631.16	11357631.33	0.0133	0.0114
Uranus	26385-12-14 00:14 G	11358330.28	11358330.51	11358330.76	0.0134	0.0073
Jupiter	26389-11-02 04:19 G	11359749.45	11359749.68	11359749.91	0.0539	0.0194
Uranus	26426-04-11 15:07 G	11373058.82	11373059.13	11373059.46	0.0145	0.0033
Saturn	26433-10-26 14:09 G	11375813.78	11375814.09	11375814.41	0.0269	0.0007
Neptune	26444-05-30 07:12 G	11379682.56	11379682.80	11379683.08	0.0090	0.0037
Neptune	26446-04-23 18:29 G	11380376.02	11380376.27	11380376.55	0.0090	0.0031
Saturn	26448-01-07 09:07 G	11380999.61	11380999.88	11381000.16	0.0290	0.0036
Uranus	26468-09-07 19:41 G	11388549.05	11388549.32	11388549.59	0.0133	0.0043
Pluto	26507-08-09 19:12 G	11402763.05	11402763.30	11402763.62	0.0081	0.0047
Uranus	26510-12-08 00:29 G	11403979.25	11403979.52	11403979.82	0.0145	0.0075

Saturn	26522-03-23 16:48 G	11408102.90	11408103.20	11408103.50	0.0270	0.0081
Jupiter	26526-03-02 18:00 G	11409542.96	11409543.25	11409543.56	0.0488	0.0100
Neptune	26526-03-14 21:50 G	11409555.23	11409555.41	11409555.68	0.0088	0.0067
Neptune	26528-02-09 12:00 G	11410251.65	11410252.00	11410252.35	0.0088	0.0012
Saturn	26536-06-04 08:24 G	11413289.63	11413289.85	11413290.10	0.0291	0.0152
Jupiter	26544-01-27 07:55 G	11416082.59	11416082.83	11416083.08	0.0539	0.0010
Uranus	26553-05-03 21:07 G	11419467.10	11419467.38	11419467.67	0.0134	0.0028
Uranus	26593-08-27 23:02 G	11434193.25	11434193.46	11434193.72	0.0145	0.0102
Neptune	26608-01-16 01:12 G	11439446.36	11439446.55	11439446.80	0.0090	0.0058
Neptune	26609-12-09 13:55 G	11440139.80	11440140.08	11440140.36	0.0090	0.0009
Saturn	26610-08-18 18:43 G	11440392.04	11440392.28	11440392.55	0.0269	0.0157
Neptune	26611-11-03 01:55 G	11440833.43	11440833.58	11440833.73	0.0090	0.0075
Saturn	26624-10-30 06:00 G	11445578.57	11445578.75	11445578.94	0.0290	0.0211
Uranus	26636-01-28 13:55 G	11449685.88	11449686.08	11449686.31	0.0133	0.0091
Uranus	26637-12-27 23:17 G	11450385.30	11450385.47	11450385.68	0.0134	0.0099
Uranus	26678-04-25 06:43 G	11465113.45	11465113.78	11465114.11	0.0145	0.0005
Jupiter	26680-05-27 21:36 G	11465877.14	11465877.40	11465877.68	0.0488	0.0228
Neptune	26691-09-23 21:50 G	11470013.06	11470013.41	11470013.75	0.0088	0.0013
Neptune	26693-08-20 10:48 G	11470709.73	11470709.95	11470710.20	0.0088	0.0065
Jupiter	26698-04-23 15:36 G	11472416.96	11472417.15	11472417.36	0.0539	0.0318
Saturn	26699-01-11 15:36 G	11472679.94	11472680.15	11472680.39	0.0269	0.0192
Saturn	26713-03-27 01:41 G	11477867.50	11477867.57	11477867.67	0.0291	0.0276
Uranus	26720-09-22 16:05 G	11480603.89	11480604.17	11480604.46	0.0133	0.0020
Pluto	26755-11-17 23:31 G	11493443.16	11493443.48	11493443.84	0.0081	0.0019
Uranus	26762-12-21 10:05 G	11496033.72	11496033.92	11496034.14	0.0145	0.0110
Neptune	26771-09-01 20:53 G	11499210.25	11499210.37	11499210.52	0.0090	0.0079
Neptune	26773-07-26 08:09 G	11499903.56	11499903.84	11499904.13	0.0090	0.0012
Neptune	26775-06-19 19:26 G	11500597.10	11500597.31	11500597.56	0.0090	0.0054
Saturn	26787-06-08 03:07 G	11504968.50	11504968.63	11504968.78	0.0268	0.0240
Jupiter	26798-11-16 02:53 G	11509147.48	11509147.62	11509147.78	0.0489	0.0426

Uranus	26805-05-17 20:53 G	11511522.11	11511522.37	11511522.64	0.0133	0.0053
Jupiter	26816-10-14 05:02 G	11515689.54	11515689.71	11515689.90	0.0539	0.0372
Uranus	26845-09-10 00:29 G	11526247.25	11526247.52	11526247.82	0.0145	0.0074
Neptune	26855-05-08 06:43 G	11529774.50	11529774.78	11529775.12	0.0088	0.0039
Neptune	26857-04-03 19:55 G	11530471.04	11530471.33	11530471.66	0.0088	0.0040
Saturn	26875-10-31 12:14 G	11537255.93	11537256.01	11537256.12	0.0268	0.0256
Uranus	26888-02-10 12:43 G	11541740.80	11541741.03	11541741.30	0.0133	0.0067
Uranus	26890-01-09 22:48 G	11542440.38	11542440.45	11542440.57	0.0133	0.0126
Uranus	26930-05-08 04:05 G	11557167.36	11557167.67	11557168.00	0.0145	0.0033
Neptune	26937-03-12 01:55 G	11559667.34	11559667.58	11559667.86	0.0090	0.0035
Neptune	26939-02-03 12:57 G	11560360.79	11560361.04	11560361.32	0.0090	0.0032
Jupiter	26953-02-10 15:07 G	11565481.83	11565482.13	11565482.44	0.0490	0.0062
Jupiter	26971-01-09 11:31 G	11572023.73	11572023.98	11572024.23	0.0538	0.0047
Uranus	26972-10-05 18:29 G	11572658.98	11572659.27	11572659.56	0.0133	0.0008

28TH MILLENNIUM CE

This is a list of transits of Mars in the 28th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Pluto	27004-02-26 13:55 G	11584123.76	11584124.08	11584124.43	0.0081	0.0019		
Uranus	27015-01-03 11:31 G	11588087.95	11588087.98	11588088.05	0.0145	0.0143		
Neptune	27018-12-21 14:53 G	11589535.91	11589536.12	11589536.39	0.0088	0.0064		
Neptune	27020-11-17 03:07 G	11590232.30	11590232.63	11590232.99	0.0088	0.0014		
Saturn	27022-07-02 11:02 G	11590824.80	11590824.96	11590825.14	0.0267	0.0225		

Saturn	27036-09-14 23:31 G	11596013.37	11596013.48	11596013.63	0.0294	0.0260
Uranus	27055-07-02 10:05 G	11602877.79	11602877.92	11602878.10	0.0133	0.0113
Uranus	27057-05-31 21:50 G	11603577.21	11603577.41	11603577.66	0.0133	0.0083
Uranus	27097-09-23 15:21 G	11618301.83	11618302.14	11618302.47	0.0145	0.0036
Neptune	27100-10-27 17:17 G	11619431.02	11619431.22	11619431.46	0.0089	0.0057
Neptune	27102-09-21 07:12 G	11620124.52	11620124.80	11620125.09	0.0089	0.0010
Neptune	27104-08-14 18:00 G	11620818.12	11620818.25	11620818.42	0.0089	0.0076
Jupiter	27107-05-09 21:36 G	11621816.17	11621816.40	11621816.66	0.0489	0.0288
Saturn	27110-11-26 22:05 G	11623113.19	11623113.42	11623113.66	0.0267	0.0173
Saturn	27125-02-09 01:41 G	11628301.42	11628301.57	11628301.75	0.0293	0.0235
Jupiter	27125-04-07 00:14 G	11628358.31	11628358.51	11628358.72	0.0538	0.0308
Uranus	27140-02-25 16:19 G	11633795.90	11633796.18	11633796.46	0.0133	0.0037
Uranus	27182-05-22 02:09 G	11649222.32	11649222.59	11649222.88	0.0145	0.0077
Neptune	27184-07-01 10:33 G	11649993.61	11649993.94	11649994.30	0.0088	0.0012
Neptune	27186-05-28 21:36 G	11650690.21	11650690.40	11650690.67	0.0088	0.0066
Saturn	27199-04-23 09:50 G	11655402.62	11655402.91	11655403.21	0.0267	0.0093
Saturn	27213-07-06 17:31 G	11660590.99	11660591.23	11660591.48	0.0294	0.0133
Uranus	27224-10-19 20:53 G	11664714.09	11664714.37	11664714.65	0.0133	0.0038
Jupiter	27225-10-26 06:29 G	11665085.65	11665085.77	11665085.92	0.0490	0.0438
Jupiter	27243-09-27 00:57 G	11671630.41	11671630.54	11671630.70	0.0537	0.0431
Pluto	27252-06-05 04:48 G	11674804.38	11674804.70	11674805.04	0.0081	0.0026
Neptune	27264-06-12 08:24 G	11679194.74	11679194.85	11679195.01	0.0090	0.0079
Uranus	27265-02-09 05:45 G	11679436.52	11679436.74	11679436.97	0.0145	0.0105
Neptune	27266-05-06 20:38 G	11679888.09	11679888.36	11679888.65	0.0090	0.0013
Neptune	27268-03-30 09:21 G	11680581.67	11680581.89	11680582.12	0.0089	0.0053
Jupiter	27279-07-01 07:26 G	11684691.77	11684691.81	11684691.87	0.0538	0.0527
Saturn	27287-09-17 21:50 G	11687692.10	11687692.41	11687692.72	0.0267	0.0003
Saturn	27301-12-01 20:09 G	11692880.07	11692880.34	11692880.61	0.0293	0.0062
Uranus	27307-07-16 13:41 G	11694932.86	11694933.07	11694933.31	0.0133	0.0083
Uranus	27309-06-15 03:21 G	11695632.49	11695632.64	11695632.80	0.0133	0.0113

Neptune	27348-02-13 14:53 G	11709754.83	11709755.12	11709755.46	0.0088	0.0038
Uranus	27349-10-07 07:26 G	11710356.48	11710356.81	11710357.13	0.0145	0.0003
Neptune	27350-01-10 02:38 G	11710451.33	11710451.61	11710451.95	0.0088	0.0040
Saturn	27376-02-13 09:36 G	11719981.60	11719981.90	11719982.20	0.0268	0.0084
Jupiter	27380-01-20 03:36 G	11721418.38	11721418.65	11721418.93	0.0490	0.0209
Saturn	27390-04-29 01:12 G	11725170.28	11725170.55	11725170.82	0.0293	0.0066
Uranus	27392-03-09 20:53 G	11725851.08	11725851.37	11725851.66	0.0133	0.0007
Jupiter	27397-12-21 01:41 G	11727963.35	11727963.57	11727963.80	0.0537	0.0244
Neptune	27429-12-22 10:48 G	11739651.71	11739651.95	11739652.24	0.0090	0.0036
Neptune	27431-11-15 23:02 G	11740345.21	11740345.46	11740345.74	0.0089	0.0031
Uranus	27434-06-04 09:07 G	11741276.69	11741276.88	11741277.10	0.0145	0.0112
Saturn	27464-07-10 21:36 G	11752271.17	11752271.40	11752271.65	0.0267	0.0173
Uranus	27474-12-04 12:57 G	11756069.98	11756070.04	11756070.13	0.0133	0.0128
Uranus	27476-11-03 04:48 G	11756769.46	11756769.70	11756769.96	0.0133	0.0070
Saturn	27478-09-24 07:12 G	11757459.56	11757459.80	11757460.05	0.0293	0.0142
Pluto	27500-09-15 06:43 G	11765485.62	11765485.78	11765486.02	0.0081	0.0066
Neptune	27511-09-28 19:12 G	11769516.07	11769516.30	11769516.55	0.0088	0.0064
Neptune	27513-08-25 05:45 G	11770212.41	11770212.74	11770213.10	0.0088	0.0013
Uranus	27517-02-23 12:00 G	11771490.74	11771491.00	11771491.29	0.0145	0.0074
Jupiter	27534-04-16 21:21 G	11777752.09	11777752.39	11777752.69	0.0490	0.0090
Jupiter	27552-03-18 01:12 G	11784297.30	11784297.55	11784297.80	0.0537	0.0047
Saturn	27552-12-05 07:55 G	11784559.67	11784559.83	11784560.00	0.0267	0.0226
Uranus	27559-07-30 23:02 G	11786988.20	11786988.46	11786988.75	0.0133	0.0051
Saturn	27567-02-19 14:09 G	11789748.94	11789749.09	11789749.28	0.0293	0.0230
Neptune	27593-08-07 22:48 G	11799415.24	11799415.45	11799415.68	0.0090	0.0058
Neptune	27595-07-02 12:29 G	11800108.74	11800109.02	11800109.31	0.0090	0.0008
Neptune	27597-05-26 00:14 G	11800802.35	11800802.51	11800802.68	0.0089	0.0073
Uranus	27601-10-20 20:38 G	11802411.06	11802411.36	11802411.68	0.0145	0.0040
Uranus	27644-03-24 08:53 G	11817906.60	11817906.87	11817907.17	0.0133	0.0030
Saturn	27655-07-16 01:41 G	11822037.48	11822037.57	11822037.69	0.0293	0.0270

Neptune	27677-04-07 08:09 G	11829973.51	11829973.84	11829974.20	0.0088	0.0015
Neptune	27679-03-04 19:12 G	11830670.06	11830670.30	11830670.55	0.0088	0.0062
Uranus	27684-07-11 11:17 G	11832625.92	11832625.97	11832626.08	0.0145	0.0141
Jupiter	27688-07-11 01:26 G	11834086.43	11834086.56	11834086.72	0.0490	0.0430
Saturn	27699-08-05 15:07 G	11838129.01	11838129.13	11838129.28	0.0266	0.0238
Jupiter	27706-06-12 22:33 G	11840631.25	11840631.44	11840631.64	0.0537	0.0331
Uranus	27726-12-19 01:55 G	11848125.39	11848125.58	11848125.81	0.0133	0.0093
Uranus	27728-11-17 18:00 G	11848825.10	11848825.25	11848825.43	0.0133	0.0108
Saturn	27743-12-10 00:14 G	11854325.51	11854325.51	11854325.51	0.0294	0.0294
Neptune	27757-03-24 08:53 G	11859178.77	11859178.87	11859179.02	0.0090	0.0081
Neptune	27759-02-15 22:33 G	11859872.17	11859872.44	11859872.73	0.0090	0.0016
Neptune	27761-01-09 11:45 G	11860565.77	11860565.99	11860566.24	0.0090	0.0050
Uranus	27769-03-08 22:19 G	11863546.11	11863546.43	11863546.75	0.0145	0.0025
Saturn	27787-12-30 03:50 G	11870416.49	11870416.66	11870416.83	0.0266	0.0219
Jupiter	27806-12-31 09:50 G	11877356.65	11877356.91	11877357.18	0.0491	0.0225
Uranus	27811-08-14 14:24 G	11879043.81	11879044.10	11879044.39	0.0133	0.0012
Jupiter	27824-12-03 15:21 G	11883903.94	11883904.14	11883904.33	0.0536	0.0335
Neptune	27840-11-20 08:53 G	11889734.60	11889734.87	11889735.21	0.0088	0.0042
Neptune	27842-10-17 18:43 G	11890430.98	11890431.28	11890431.62	0.0088	0.0035
Uranus	27853-11-04 07:12 G	11894466.57	11894466.80	11894467.07	0.0145	0.0092
Saturn	27876-05-25 16:19 G	11902704.96	11902705.18	11902705.42	0.0265	0.0175
Uranus	27896-04-08 01:12 G	11909962.32	11909962.55	11909962.82	0.0133	0.0068
Pluto	27905-12-30 01:12 G	11913514.35	11913514.55	11913514.79	0.0063	0.0040
Neptune	27922-10-03 08:53 G	11919635.62	11919635.87	11919636.14	0.0090	0.0039
Neptune	27924-08-26 21:50 G	11920329.15	11920329.41	11920329.69	0.0090	0.0027
Uranus	27936-07-26 11:45 G	11924680.78	11924680.99	11924681.25	0.0146	0.0100
Jupiter	27961-03-28 01:26 G	11933691.28	11933691.56	11933691.85	0.0491	0.0159
Saturn	27964-10-19 18:29 G	11934993.02	11934993.27	11934993.55	0.0265	0.0137
Uranus	27979-01-02 20:24 G	11940181.10	11940181.35	11940181.64	0.0133	0.0054
Jupiter	27979-03-01 10:48 G	11940238.71	11940238.95	11940239.20	0.0536	0.0055

29TH MILLENNIUM CE

This is a list of transits of Mars in the 29th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	28004-07-04 11:31	G	11949495.78	11949495.98	11949496.21	0.0088	0.0068	
Neptune	28006-05-31 19:55	G	11950192.00	11950192.33	11950192.69	0.0088	0.0008	
Neptune	28008-04-27 05:45	G	11950888.65	11950888.74	11950888.86	0.0088	0.0083	
Uranus	28021-03-22 16:48	G	11955600.88	11955601.20	11955601.53	0.0146	0.0014	
Saturn	28053-03-15 23:02	G	11967282.17	11967282.46	11967282.76	0.0265	0.0069	
Uranus	28063-08-28 10:48	G	11971099.67	11971099.95	11971100.24	0.0133	0.0029	
Saturn	28067-05-30 15:50	G	11972471.00	11972471.16	11972471.33	0.0296	0.0238	
Neptune	28086-05-18 15:50	G	11979398.96	11979399.16	11979399.37	0.0090	0.0063	
Neptune	28088-04-11 06:43	G	11980092.50	11980092.78	11980093.07	0.0090	0.0002	
Neptune	28090-03-05 18:43	G	11980786.12	11980786.28	11980786.49	0.0090	0.0068	
Uranus	28105-11-17 21:36	G	11986521.29	11986521.40	11986521.57	0.0146	0.0131	
Jupiter	28115-06-22 13:26	G	11990024.96	11990025.06	11990025.19	0.0491	0.0450	
Jupiter	28133-05-26 02:53	G	11996572.42	11996572.62	11996572.82	0.0536	0.0314	
Saturn	28141-08-11 03:21	G	11999571.33	11999571.64	11999571.95	0.0265	0.0007	
Uranus	28146-05-24 05:02	G	12001318.52	12001318.71	12001318.94	0.0133	0.0094	
Uranus	28148-04-22 23:31	G	12002018.35	12002018.48	12002018.66	0.0133	0.0113	
Pluto	28154-04-10 08:09	G	12004196.56	12004196.84	12004197.13	0.0063	0.0010	
Saturn	28155-10-25 09:36	G	12004759.69	12004759.90	12004760.13	0.0295	0.0182	
Neptune	28170-01-12 20:24	G	12009953.02	12009953.35	12009953.69	0.0088	0.0020	

Neptune	28171-12-10 04:05 G	12010649.44	12010649.67	12010649.98	0.0088	0.0056
Uranus	28188-08-08 16:33 G	12016735.91	12016736.19	12016736.50	0.0146	0.0055
Saturn	28230-01-06 15:36 G	12031860.87	12031861.15	12031861.45	0.0266	0.0093
Uranus	28231-01-17 20:24 G	12032237.06	12032237.35	12032237.65	0.0133	0.0009
Jupiter	28233-12-09 20:09 G	12033294.12	12033294.34	12033294.59	0.0492	0.0309
Saturn	28244-03-22 15:07 G	12037049.86	12037050.13	12037050.41	0.0295	0.0054
Neptune	28250-01-02 20:09 G	12039162.31	12039162.34	12039162.43	0.0090	0.0088
Jupiter	28251-11-15 21:07 G	12039844.25	12039844.38	12039844.51	0.0535	0.0455
Neptune	28251-11-27 12:29 G	12039855.75	12039856.02	12039856.30	0.0090	0.0022
Neptune	28253-10-21 03:50 G	12040549.43	12040549.66	12040549.93	0.0090	0.0044
Uranus	28273-04-06 04:19 G	12047656.42	12047656.68	12047656.99	0.0146	0.0067
Uranus	28315-09-13 11:17 G	12063155.75	12063155.97	12063156.23	0.0133	0.0076
Saturn	28318-06-04 07:55 G	12064150.62	12064150.83	12064151.07	0.0266	0.0185
Saturn	28332-08-18 04:33 G	12069339.41	12069339.69	12069339.97	0.0295	0.0035
Neptune	28333-08-27 22:48 G	12069714.17	12069714.45	12069714.76	0.0088	0.0046
Neptune	28335-07-25 06:00 G	12070410.42	12070410.75	12070411.08	0.0088	0.0028
Uranus	28355-12-28 03:36 G	12077871.48	12077871.65	12077871.86	0.0146	0.0118
Jupiter	28388-03-05 08:09 G	12089627.54	12089627.84	12089628.14	0.0492	0.0032
Uranus	28398-06-08 06:14 G	12093374.49	12093374.76	12093375.04	0.0133	0.0048
Jupiter	28406-02-09 15:07 G	12096177.90	12096178.13	12096178.37	0.0535	0.0187
Saturn	28406-10-29 06:29 G	12096439.69	12096439.77	12096439.87	0.0266	0.0254
Neptune	28415-07-13 17:17 G	12099618.99	12099619.22	12099619.48	0.0090	0.0047
Neptune	28417-06-06 08:09 G	12100312.57	12100312.84	12100313.13	0.0090	0.0019
Neptune	28419-04-30 22:48 G	12101006.38	12101006.45	12101006.58	0.0090	0.0084
Saturn	28421-01-13 01:41 G	12101629.33	12101629.57	12101629.81	0.0295	0.0149
Uranus	28440-08-23 06:57 G	12108791.47	12108791.79	12108792.11	0.0146	0.0003
Saturn	28465-02-03 00:43 G	12117721.37	12117721.53	12117721.69	0.0265	0.0225
Uranus	28483-01-31 21:50 G	12124293.14	12124293.41	12124293.71	0.0133	0.0037
Pluto	28491-12-01 13:26 G	12127518.96	12127519.06	12127519.21	0.0081	0.0076
Neptune	28497-04-10 01:55 G	12129475.39	12129475.58	12129475.78	0.0088	0.0072

Neptune	28499-03-07 07:41 G	12130171.47	12130171.82	12130172.16	0.0088	0.0002
Neptune	28501-02-01 13:55 G	12130867.96	12130868.08	12130868.29	0.0088	0.0077
Saturn	28509-06-10 00:43 G	12133918.35	12133918.53	12133918.74	0.0295	0.0212
Uranus	28525-04-20 11:17 G	12139711.80	12139711.97	12139712.20	0.0146	0.0115
Jupiter	28542-05-31 02:38 G	12145961.37	12145961.61	12145961.87	0.0492	0.0273
Saturn	28553-06-30 22:48 G	12150010.22	12150010.45	12150010.70	0.0264	0.0165
Jupiter	28560-05-06 05:45 G	12152511.49	12152511.74	12152511.99	0.0535	0.0069
Uranus	28565-10-27 14:09 G	12154511.89	12154512.09	12154512.33	0.0133	0.0089
Uranus	28567-09-27 13:12 G	12155211.96	12155212.05	12155212.19	0.0133	0.0122
Neptune	28579-02-26 21:07 G	12159382.24	12159382.38	12159382.58	0.0090	0.0072
Neptune	28581-01-20 13:55 G	12160075.79	12160076.08	12160076.37	0.0090	0.0006
Neptune	28582-12-15 04:05 G	12160769.46	12160769.67	12160769.89	0.0090	0.0059
Saturn	28597-11-03 09:21 G	12166206.77	12166206.89	12166207.04	0.0296	0.0255
Uranus	28608-01-10 23:31 G	12169926.23	12169926.48	12169926.76	0.0146	0.0081
Saturn	28641-11-24 17:17 G	12182297.97	12182298.22	12182298.49	0.0264	0.0140
Uranus	28650-06-23 08:09 G	12185430.54	12185430.84	12185431.14	0.0133	0.0002
Jupiter	28660-11-18 11:45 G	12189231.82	12189231.99	12189232.18	0.0493	0.0395
Neptune	28662-10-20 10:05 G	12189932.61	12189932.92	12189933.27	0.0088	0.0025
Neptune	28664-09-15 15:50 G	12190628.89	12190629.16	12190629.46	0.0088	0.0050
Saturn	28686-03-30 09:50 G	12198494.83	12198494.91	12198495.01	0.0296	0.0280
Uranus	28692-09-06 06:43 G	12200846.48	12200846.78	12200847.10	0.0146	0.0040
Jupiter	28714-08-03 00:29 G	12208846.40	12208846.52	12208846.66	0.0535	0.0458
Saturn	28730-04-21 02:53 G	12214586.34	12214586.62	12214586.91	0.0264	0.0102
Uranus	28733-03-18 21:36 G	12215649.36	12215649.40	12215649.47	0.0133	0.0130
Uranus	28735-02-16 23:45 G	12216349.27	12216349.49	12216349.73	0.0133	0.0084
Neptune	28744-09-06 17:31 G	12219838.98	12219839.23	12219839.52	0.0090	0.0031
Neptune	28746-08-01 09:50 G	12220532.66	12220532.91	12220533.19	0.0090	0.0035
Saturn	28774-08-23 17:31 G	12230782.14	12230782.23	12230782.35	0.0296	0.0274
Jupiter	28815-02-14 08:53 G	12245566.57	12245566.87	12245567.17	0.0493	0.0012
Uranus	28817-11-11 14:53 G	12246567.84	12246568.12	12246568.41	0.0133	0.0042

Saturn	28818-09-13 19:26 G	12246874.02	12246874.31	12246874.61	0.0264	0.0079
Neptune	28826-06-03 15:50 G	12249693.90	12249694.16	12249694.47	0.0088	0.0050
Neptune	28828-04-29 20:24 G	12250390.03	12250390.35	12250390.69	0.0088	0.0024
Jupiter	28833-01-22 17:45 G	12252119.01	12252119.24	12252119.48	0.0533	0.0198
Uranus	28860-01-24 19:55 G	12261982.02	12261982.33	12261982.64	0.0146	0.0025
Pluto	28897-03-23 03:07 G	12275554.39	12275554.63	12275554.92	0.0063	0.0026
Uranus	28902-07-08 07:55 G	12277486.55	12277486.83	12277487.11	0.0133	0.0045
Saturn	28907-02-08 11:45 G	12279162.69	12279162.99	12279163.29	0.0264	0.0030
Neptune	28908-04-22 21:07 G	12279602.16	12279602.38	12279602.62	0.0090	0.0054
Neptune	28910-03-17 14:09 G	12280295.81	12280296.09	12280296.38	0.0090	0.0011
Neptune	28912-02-09 06:29 G	12280989.62	12280989.77	12280989.93	0.0090	0.0075
Uranus	28944-09-21 01:26 G	12292902.34	12292902.56	12292902.82	0.0146	0.0097
Jupiter	28969-05-11 06:43 G	12301900.57	12301900.78	12301901.00	0.0493	0.0342
Uranus	28985-04-01 18:00 G	12307705.03	12307705.25	12307705.49	0.0133	0.0085
Uranus	28987-03-02 21:50 G	12308405.40	12308405.41	12308405.47	0.0133	0.0132
Jupiter	28987-04-19 19:26 G	12308453.06	12308453.31	12308453.56	0.0534	0.0112
Neptune	28990-01-15 22:05 G	12309455.27	12309455.42	12309455.63	0.0088	0.0075
Neptune	28991-12-13 01:41 G	12310151.23	12310151.57	12310151.92	0.0088	0.0002
Neptune	28993-11-08 05:31 G	12310847.58	12310847.73	12310847.97	0.0088	0.0073
Saturn	28995-07-05 04:05 G	12311451.37	12311451.67	12311451.97	0.0264	0.0028

30TH MILLENNIUM CE

This is a list of transits of Mars in the 30th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Uranus	29027-06-13 23:31 G	12323117.27	12323117.48	12323117.74	0.0145	0.0097
Uranus	29069-11-26 10:19 G	12338623.64	12338623.93	12338624.23	0.0133	0.0003
Neptune	29071-12-08 01:12 G	12339365.44	12339365.55	12339365.72	0.0090	0.0078
Neptune	29073-10-31 19:41 G	12340059.05	12340059.32	12340059.62	0.0090	0.0013
Neptune	29075-09-25 12:00 G	12340752.79	12340753.00	12340753.26	0.0090	0.0053
Saturn	29083-11-30 12:29 G	12343740.75	12343741.02	12343741.30	0.0264	0.0107
Jupiter	29087-10-29 21:50 G	12345170.25	12345170.41	12345170.60	0.0494	0.0402
Saturn	29098-02-12 04:48 G	12348928.50	12348928.70	12348928.92	0.0297	0.0198
Uranus	29112-02-08 18:57 G	12354036.98	12354037.29	12354037.61	0.0145	0.0018
Jupiter	29141-07-15 18:43 G	12364787.13	12364787.28	12364787.44	0.0534	0.0417
Uranus	29152-08-21 16:33 G	12368842.18	12368842.19	12368842.25	0.0133	0.0132
Uranus	29154-07-23 00:57 G	12369542.33	12369542.54	12369542.77	0.0133	0.0089
Neptune	29155-07-28 10:05 G	12369912.60	12369912.92	12369913.26	0.0088	0.0026
Neptune	29157-06-23 12:43 G	12370608.78	12370609.03	12370609.35	0.0088	0.0048
Saturn	29172-04-27 04:19 G	12376030.49	12376030.68	12376030.89	0.0264	0.0197
Saturn	29186-07-10 16:19 G	12381217.93	12381218.18	12381218.45	0.0296	0.0110
Uranus	29196-10-04 17:31 G	12384957.13	12384957.23	12384957.35	0.0145	0.0136
Saturn	29230-08-03 23:31 G	12397313.39	12397313.48	12397313.60	0.0264	0.0246
Pluto	29234-11-13 01:26 G	12398875.33	12398875.56	12398875.86	0.0081	0.0053
Uranus	29237-04-16 08:53 G	12399760.60	12399760.87	12399761.16	0.0133	0.0044
Neptune	29237-06-17 01:12 G	12399822.30	12399822.55	12399822.84	0.0090	0.0036
Neptune	29239-05-11 19:12 G	12400516.03	12400516.30	12400516.58	0.0090	0.0030
Jupiter	29242-01-23 07:26 G	12401503.52	12401503.81	12401504.10	0.0494	0.0128
Jupiter	29260-01-04 06:14 G	12408058.59	12408058.76	12408058.95	0.0533	0.0376
Saturn	29274-12-05 22:19 G	12413508.15	12413508.43	12413508.72	0.0297	0.0022
Uranus	29279-06-26 16:48 G	12415171.91	12415172.20	12415172.49	0.0145	0.0059
Saturn	29318-12-30 00:57 G	12429602.32	12429602.54	12429602.77	0.0264	0.0174
Neptune	29319-03-11 21:07 G	12429674.11	12429674.38	12429674.67	0.0088	0.0049
Neptune	29321-02-04 22:05 G	12430370.10	12430370.42	12430370.76	0.0088	0.0023

Uranus	29321-12-10 21:36 G	12430679.12	12430679.40	12430679.69	0.0133	0.0043
Saturn	29363-05-03 08:53 G	12445797.62	12445797.87	12445798.15	0.0297	0.0108
Uranus	29364-02-21 20:53 G	12446092.10	12446092.37	12446092.67	0.0145	0.0064
Pluto	29391-11-25 03:07 G	12456230.38	12456230.63	12456230.92	0.0063	0.0022
Jupiter	29396-04-18 13:41 G	12457836.79	12457837.07	12457837.36	0.0494	0.0135
Neptune	29401-02-01 07:12 G	12459585.58	12459585.80	12459586.03	0.0090	0.0057
Neptune	29402-12-27 02:24 G	12460279.32	12460279.60	12460279.90	0.0090	0.0009
Uranus	29404-09-05 02:24 G	12460897.39	12460897.60	12460897.82	0.0133	0.0093
Neptune	29404-11-19 20:24 G	12460973.21	12460973.35	12460973.54	0.0090	0.0073
Uranus	29406-08-06 10:33 G	12461597.91	12461597.94	12461598.02	0.0133	0.0131
Saturn	29407-05-27 06:57 G	12461891.52	12461891.79	12461892.07	0.0263	0.0104
Jupiter	29414-03-31 11:31 G	12464391.74	12464391.98	12464392.23	0.0532	0.0154
Uranus	29446-11-14 04:48 G	12476307.57	12476307.70	12476307.87	0.0145	0.0127
Saturn	29451-09-28 09:07 G	12478086.66	12478086.88	12478087.11	0.0297	0.0178
Neptune	29482-10-24 10:05 G	12489435.75	12489435.92	12489436.14	0.0088	0.0072
Neptune	29484-09-19 10:48 G	12490131.61	12490131.95	12490132.29	0.0088	0.0000
Neptune	29486-08-16 11:45 G	12490827.83	12490827.99	12490828.21	0.0088	0.0073
Uranus	29489-04-30 14:53 G	12491815.82	12491816.12	12491816.43	0.0133	0.0006
Saturn	29495-10-20 09:50 G	12494179.63	12494179.91	12494180.21	0.0263	0.0067
Uranus	29531-07-12 02:38 G	12507227.30	12507227.61	12507227.93	0.0145	0.0010
Saturn	29540-02-22 17:17 G	12510375.05	12510375.22	12510375.42	0.0297	0.0221
Neptune	29564-09-17 14:53 G	12519349.01	12519349.12	12519349.29	0.0090	0.0079
Neptune	29566-08-12 10:48 G	12520042.67	12520042.95	12520043.25	0.0090	0.0013
Jupiter	29568-06-25 23:02 G	12520726.23	12520726.46	12520726.70	0.0532	0.0210
Neptune	29568-07-06 05:02 G	12520736.49	12520736.71	12520736.96	0.0090	0.0052
Uranus	29573-12-25 03:21 G	12522734.41	12522734.64	12522734.88	0.0133	0.0081
Saturn	29584-03-15 23:45 G	12526468.19	12526468.49	12526468.79	0.0263	0.0023
Uranus	29616-03-06 19:55 G	12538147.12	12538147.33	12538147.56	0.0145	0.0106
Saturn	29628-07-17 04:33 G	12542662.52	12542662.69	12542662.89	0.0298	0.0222
Neptune	29648-05-04 01:26 G	12549893.24	12549893.56	12549893.90	0.0088	0.0022

Neptune	29650-03-31 01:41 G	12550589.32	12550589.57	12550589.88	0.0088	0.0051
Uranus	29656-09-18 02:38 G	12552952.36	12552952.61	12552952.90	0.0133	0.0061
Jupiter	29669-01-02 16:19 G	12557441.90	12557442.18	12557442.46	0.0495	0.0153
Saturn	29672-08-08 17:02 G	12558755.90	12558756.21	12558756.51	0.0263	0.0003
Jupiter	29686-12-16 13:26 G	12563998.94	12563999.06	12563999.20	0.0531	0.0450
Uranus	29698-11-26 18:00 G	12568362.03	12568362.25	12568362.49	0.0145	0.0096
Saturn	29716-12-11 00:43 G	12574950.38	12574950.53	12574950.69	0.0298	0.0246
Neptune	29730-03-28 20:38 G	12579806.10	12579806.36	12579806.64	0.0090	0.0034
Neptune	29732-02-20 15:36 G	12580499.90	12580500.15	12580500.45	0.0090	0.0032
Uranus	29741-05-14 16:05 G	12583870.89	12583871.17	12583871.48	0.0133	0.0027
Saturn	29761-01-03 04:33 G	12591044.39	12591044.69	12591044.99	0.0263	0.0040
Uranus	29783-07-24 08:09 G	12599281.53	12599281.84	12599282.15	0.0145	0.0018
Saturn	29805-05-06 06:43 G	12607237.62	12607237.78	12607237.95	0.0298	0.0239
Neptune	29811-12-18 18:43 G	12609655.01	12609655.28	12609655.60	0.0088	0.0044
Neptune	29813-11-13 17:31 G	12610350.91	12610351.23	12610351.56	0.0088	0.0028
Jupiter	29823-03-31 22:19 G	12613776.17	12613776.43	12613776.70	0.0496	0.0208
Uranus	29824-02-07 10:19 G	12614088.82	12614088.93	12614089.09	0.0133	0.0120
Uranus	29826-01-08 01:41 G	12614789.44	12614789.57	12614789.75	0.0133	0.0113
Jupiter	29841-03-14 00:00 G	12620333.25	12620333.50	12620333.75	0.0531	0.0096
Saturn	29849-05-30 10:48 G	12623332.66	12623332.95	12623333.24	0.0263	0.0080
Uranus	29868-03-20 04:05 G	12630201.60	12630201.67	12630201.80	0.0145	0.0137
Neptune	29893-11-12 05:45 G	12639569.50	12639569.74	12639569.98	0.0090	0.0053
Neptune	29895-10-07 03:36 G	12640263.37	12640263.65	12640263.95	0.0090	0.0012
Neptune	29897-08-30 22:48 G	12640957.32	12640957.45	12640957.62	0.0090	0.0076
Uranus	29908-10-03 00:14 G	12645007.22	12645007.51	12645007.81	0.0133	0.0030
Saturn	29937-10-25 09:07 G	12655621.63	12655621.88	12655622.13	0.0263	0.0143
Uranus	29950-12-11 15:21 G	12660416.87	12660417.14	12660417.43	0.0145	0.0059
Neptune	29975-08-02 15:36 G	12669416.95	12669417.15	12669417.41	0.0088	0.0064
Neptune	29977-06-28 13:12 G	12670112.73	12670113.05	12670113.40	0.0088	0.0008
Neptune	29979-05-25 12:00 G	12670808.88	12670809.00	12670809.17	0.0088	0.0079

Uranus	29993-05-28 11:45 G	12675925.72	12675925.99	12675926.27	0.0133	0.0058
Jupiter	29995-06-09 08:38 G	12676667.64	12676667.86	12676668.09	0.0531	0.0255

31ST MILLENNIUM CE

This is a list of transits of Mars in the 31st millennium CE.

	FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	30026-03-21 15:50 G			12687911.00	12687911.16	12687911.34	0.0263	0.0218	
Uranus	30035-08-07 12:00 G			12691336.74	12691337.00	12691337.31	0.0145	0.0062	
Saturn	30040-05-31 04:19 G			12693095.57	12693095.68	12693095.80	0.0298	0.0273	
Neptune	30057-06-28 15:50 G			12699333.02	12699333.16	12699333.37	0.0090	0.0073	
Neptune	30059-05-23 13:55 G			12700026.80	12700027.08	12700027.38	0.0090	0.0008	
Neptune	30061-04-16 10:33 G			12700720.73	12700720.94	12700721.18	0.0090	0.0057	
Uranus	30076-02-20 06:00 G			12706143.54	12706143.75	12706143.99	0.0133	0.0089	
Saturn	30084-06-27 23:02 G			12709194.30	12709194.46	12709194.65	0.0263	0.0210	
Jupiter	30095-12-13 17:45 G			12713379.98	12713380.24	12713380.51	0.0496	0.0216	
Uranus	30118-04-29 23:02 G			12721552.38	12721552.46	12721552.58	0.0145	0.0137	
Saturn	30128-10-27 12:14 G			12725385.76	12725386.01	12725386.27	0.0298	0.0139	
Pluto	30132-12-20 09:50 G			12726900.62	12726900.91	12726901.19	0.0063	0.0003	
Neptune	30139-03-17 14:24 G			12729179.03	12729179.10	12729179.22	0.0088	0.0084	
Neptune	30141-02-10 09:36 G			12729874.58	12729874.90	12729875.24	0.0088	0.0014	
Neptune	30143-01-07 07:26 G			12730570.57	12730570.81	12730571.08	0.0088	0.0058	
Jupiter	30149-09-02 09:50 G			12733000.79	12733000.91	12733001.04	0.0531	0.0458	
Uranus	30160-10-15 18:00 G			12737061.94	12737062.25	12737062.55	0.0133	0.0001	

Saturn	30172-11-23 06:57 G	12741483.54	12741483.79	12741484.06	0.0264	0.0131
Uranus	30202-12-25 09:36 G	12752471.59	12752471.90	12752472.21	0.0145	0.0024
Saturn	30217-03-25 08:24 G	12757675.56	12757675.85	12757676.14	0.0298	0.0036
Neptune	30223-01-08 01:55 G	12759790.30	12759790.58	12759790.86	0.0090	0.0026
Neptune	30224-12-01 23:02 G	12760484.20	12760484.46	12760484.73	0.0090	0.0039
Uranus	30245-06-11 06:43 G	12767980.58	12767980.78	12767981.03	0.0133	0.0088
Jupiter	30250-03-09 17:31 G	12769712.93	12769713.23	12769713.52	0.0497	0.0019
Saturn	30261-04-20 22:33 G	12773773.15	12773773.44	12773773.74	0.0263	0.0048
Jupiter	30268-02-22 19:12 G	12776272.10	12776272.30	12776272.50	0.0530	0.0335
Uranus	30287-08-20 18:43 G	12783391.06	12783391.28	12783391.54	0.0145	0.0090
Neptune	30304-09-26 09:36 G	12789636.60	12789636.90	12789637.23	0.0088	0.0033
Saturn	30305-08-21 02:24 G	12789965.32	12789965.60	12789965.88	0.0298	0.0066
Neptune	30306-08-23 04:48 G	12790332.42	12790332.70	12790333.03	0.0088	0.0038
Uranus	30328-03-05 21:21 G	12798198.12	12798198.39	12798198.66	0.0133	0.0063
Saturn	30349-09-15 14:24 G	12806061.80	12806062.10	12806062.40	0.0263	0.0007
Uranus	30370-05-13 02:53 G	12813606.46	12813606.62	12813606.84	0.0145	0.0114
Pluto	30379-05-14 04:33 G	12816894.57	12816894.69	12816894.88	0.0063	0.0053
Neptune	30386-08-24 11:17 G	12819553.73	12819553.97	12819554.24	0.0090	0.0045
Neptune	30388-07-18 11:17 G	12820247.69	12820247.97	12820248.27	0.0090	0.0021
Neptune	30390-06-12 07:41 G	12820941.75	12820941.82	12820941.94	0.0090	0.0085
Saturn	30394-01-15 00:00 G	12822254.25	12822254.50	12822254.76	0.0298	0.0133
Jupiter	30404-06-03 16:05 G	12826046.97	12826047.17	12826047.39	0.0496	0.0345
Uranus	30412-10-29 09:36 G	12829116.61	12829116.90	12829117.20	0.0133	0.0028
Jupiter	30422-05-19 22:05 G	12832606.16	12832606.42	12832606.68	0.0530	0.0007
Saturn	30438-02-09 11:17 G	12838350.68	12838350.97	12838351.26	0.0262	0.0058
Uranus	30455-01-06 18:43 G	12844525.97	12844526.28	12844526.59	0.0145	0.0005
Neptune	30468-05-10 11:02 G	12849398.72	12849398.96	12849399.26	0.0088	0.0052
Neptune	30470-04-06 05:17 G	12850094.40	12850094.72	12850095.06	0.0088	0.0018
Saturn	30482-06-09 21:50 G	12854542.17	12854542.41	12854542.66	0.0299	0.0154
Uranus	30495-07-23 20:38 G	12859334.29	12859334.36	12859334.48	0.0134	0.0127

Uranus	30497-06-23 19:55 G	12860035.21	12860035.33	12860035.50	0.0133	0.0118
Jupiter	30522-11-23 12:43 G	12869317.81	12869318.03	12869318.26	0.0498	0.0317
Saturn	30526-07-06 06:57 G	12870638.51	12870638.79	12870639.08	0.0262	0.0083
Uranus	30539-09-03 13:26 G	12875445.94	12875446.06	12875446.23	0.0145	0.0128
Neptune	30550-04-09 20:38 G	12879317.19	12879317.36	12879317.61	0.0090	0.0064
Neptune	30552-03-03 21:21 G	12880011.10	12880011.39	12880011.69	0.0090	0.0002
Neptune	30554-01-26 20:09 G	12880705.17	12880705.34	12880705.56	0.0090	0.0067
Saturn	30570-11-03 17:31 G	12886830.00	12886830.23	12886830.45	0.0299	0.0179
Jupiter	30576-08-14 10:05 G	12888940.74	12888940.92	12888941.11	0.0530	0.0362
Uranus	30580-03-18 10:48 G	12890252.66	12890252.95	12890253.26	0.0133	0.0035
Saturn	30614-11-30 14:38 G	12902926.85	12902927.11	12902927.38	0.0262	0.0116
Uranus	30622-05-27 06:00 G	12905661.50	12905661.75	12905662.03	0.0145	0.0073
Neptune	30631-12-25 13:41 G	12909160.91	12909161.07	12909161.30	0.0088	0.0071
Neptune	30633-11-20 06:00 G	12909856.42	12909856.75	12909857.09	0.0088	0.0001
Neptune	30635-10-17 00:00 G	12910552.31	12910552.50	12910552.72	0.0088	0.0069
Saturn	30659-03-29 15:21 G	12919116.91	12919117.14	12919117.39	0.0299	0.0161
Uranus	30664-11-11 23:02 G	12921171.18	12921171.46	12921171.74	0.0133	0.0056
Jupiter	30677-02-17 22:48 G	12925652.16	12925652.45	12925652.74	0.0498	0.0059
Jupiter	30695-02-04 21:07 G	12932213.17	12932213.38	12932213.60	0.0528	0.0303
Saturn	30703-04-26 12:57 G	12935214.80	12935215.04	12935215.30	0.0262	0.0144
Uranus	30707-01-21 17:31 G	12936580.95	12936581.23	12936581.54	0.0145	0.0044
Neptune	30713-11-25 04:33 G	12939080.58	12939080.69	12939080.82	0.0090	0.0082
Neptune	30715-10-20 07:26 G	12939774.53	12939774.81	12939775.11	0.0090	0.0017
Pluto	30716-12-28 19:55 G	12940209.98	12940210.33	12940210.69	0.0081	0.0003
Neptune	30717-09-13 06:43 G	12940468.55	12940468.78	12940469.04	0.0090	0.0049
Uranus	30747-08-07 09:36 G	12951388.72	12951388.90	12951389.13	0.0133	0.0100
Saturn	30747-08-23 17:02 G	12951405.00	12951405.21	12951405.43	0.0299	0.0201
Saturn	30791-09-20 03:21 G	12967503.44	12967503.64	12967503.84	0.0262	0.0194
Neptune	30797-07-05 08:38 G	12969618.54	12969618.86	12969619.19	0.0088	0.0020
Neptune	30799-06-01 00:29 G	12970314.26	12970314.52	12970314.81	0.0088	0.0050

Jupiter	30831-05-16 12:43 G	12981986.91	12981987.03	12981987.16	0.0497	0.0447
Uranus	30832-03-31 23:45 G	12982307.18	12982307.49	12982307.80	0.0133	0.0008
Saturn	30836-01-16 11:17 G	12983692.79	12983692.97	12983693.18	0.0299	0.0220
Jupiter	30849-05-02 15:36 G	12988547.90	12988548.15	12988548.41	0.0529	0.0100
Saturn	30849-12-27 10:48 G	12988786.83	12988786.95	12988787.08	0.0263	0.0236
Uranus	30874-06-08 09:36 G	12997715.61	12997715.90	12997716.19	0.0145	0.0050
Neptune	30879-06-04 14:38 G	12999537.85	12999538.11	12999538.40	0.0090	0.0035
Saturn	30880-02-14 00:29 G	12999792.46	12999792.52	12999792.60	0.0262	0.0254
Neptune	30881-04-28 16:33 G	13000231.93	13000232.19	13000232.49	0.0090	0.0031
Uranus	30916-11-25 12:43 G	13013225.80	13013226.03	13013226.27	0.0133	0.0085
Saturn	30938-05-24 15:36 G	13021075.93	13021076.15	13021076.38	0.0263	0.0166
Jupiter	30949-11-03 16:05 G	13025256.94	13025257.17	13025257.40	0.0499	0.0297
Uranus	30959-02-02 18:29 G	13028635.01	13028635.27	13028635.56	0.0145	0.0067
Neptune	30961-02-17 11:02 G	13029380.68	13029380.96	13029381.27	0.0088	0.0039
Neptune	30963-01-14 01:26 G	13030076.25	13030076.56	13030076.88	0.0088	0.0030
Uranus	30999-08-19 21:21 G	13043443.14	13043443.39	13043443.66	0.0133	0.0073

32ND MILLENNIUM CE

This is a list of transits of Mars in the 32nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	31003-07-28 22:19 G	13044881.24	13044881.43	13044881.64	0.0529	0.0340		
Saturn	31026-10-19 21:21 G	13053365.13	13053365.39	13053365.68	0.0263	0.0090		
Uranus	31041-10-26 16:19 G	13058851.07	13058851.18	13058851.29	0.0145	0.0134		

Neptune	31043-01-19 20:24 G	13059301.12	13059301.35	13059301.61	0.0089	0.0053
Neptune	31044-12-13 23:31 G	13059995.20	13059995.48	13059995.78	0.0090	0.0013
Neptune	31046-11-08 01:12 G	13060689.43	13060689.55	13060689.73	0.0090	0.0077
Saturn	31071-02-12 19:41 G	13069552.13	13069552.32	13069552.54	0.0298	0.0214
Uranus	31084-04-14 12:57 G	13074361.74	13074362.04	13074362.34	0.0133	0.0023
Jupiter	31104-01-29 12:43 G	13081589.74	13081590.03	13081590.31	0.0499	0.0074
Saturn	31115-03-17 14:24 G	13085654.80	13085655.10	13085655.39	0.0263	0.0004
Jupiter	31122-01-17 00:29 G	13088152.41	13088152.52	13088152.63	0.0527	0.0473
Neptune	31124-10-03 14:09 G	13089142.87	13089143.09	13089143.36	0.0088	0.0058
Uranus	31126-06-23 07:55 G	13089770.53	13089770.83	13089771.13	0.0145	0.0012
Neptune	31126-08-30 03:21 G	13089838.32	13089838.64	13089838.97	0.0088	0.0011
Neptune	31128-07-25 18:00 G	13090534.15	13090534.25	13090534.41	0.0088	0.0081
Saturn	31159-07-12 02:53 G	13101842.35	13101842.62	13101842.91	0.0298	0.0089
Uranus	31168-12-09 03:36 G	13105280.52	13105280.65	13105280.81	0.0133	0.0118
Saturn	31203-08-11 14:38 G	13117943.83	13117944.11	13117944.40	0.0263	0.0063
Neptune	31206-09-05 01:55 G	13119064.41	13119064.58	13119064.77	0.0089	0.0072
Neptune	31208-07-30 06:14 G	13119758.47	13119758.76	13119759.06	0.0090	0.0006
Neptune	31210-06-24 07:41 G	13120452.62	13120452.82	13120453.07	0.0090	0.0059
Uranus	31211-02-16 22:48 G	13120690.28	13120690.45	13120690.67	0.0145	0.0112
Saturn	31247-12-06 16:05 G	13134131.87	13134132.17	13134132.46	0.0299	0.0008
Uranus	31251-09-02 14:24 G	13135497.81	13135498.10	13135498.40	0.0133	0.0040
Jupiter	31258-04-24 00:14 G	13137923.25	13137923.51	13137923.77	0.0498	0.0212
Jupiter	31276-04-11 16:05 G	13144485.93	13144486.17	13144486.42	0.0527	0.0185
Neptune	31288-05-17 18:57 G	13148905.17	13148905.29	13148905.49	0.0088	0.0077
Neptune	31290-04-13 05:02 G	13149600.39	13149600.71	13149601.05	0.0088	0.0009
Saturn	31292-01-05 21:36 G	13150233.15	13150233.40	13150233.66	0.0262	0.0128
Neptune	31292-03-08 17:17 G	13150296.01	13150296.22	13150296.49	0.0088	0.0061
Uranus	31293-11-08 17:31 G	13150906.03	13150906.23	13150906.48	0.0145	0.0096
Uranus	31336-04-28 07:12 G	13166416.54	13166416.80	13166417.10	0.0133	0.0057
Saturn	31336-05-02 07:12 G	13166420.52	13166420.80	13166421.09	0.0299	0.0059

Neptune	31372-03-15 09:50 G	13179521.65	13179521.91	13179522.22	0.0089	0.0026
Neptune	31374-02-07 14:09 G	13180215.85	13180216.09	13180216.38	0.0090	0.0041
Jupiter	31376-10-12 19:26 G	13181194.23	13181194.31	13181194.40	0.0500	0.0475
Uranus	31378-07-05 23:17 G	13181825.17	13181825.47	13181825.77	0.0145	0.0021
Saturn	31380-06-01 04:19 G	13182521.46	13182521.68	13182521.91	0.0262	0.0167
Uranus	31419-01-21 15:07 G	13196633.94	13196634.13	13196634.34	0.0133	0.0103
Saturn	31424-09-26 11:17 G	13198708.71	13198708.97	13198709.26	0.0299	0.0101
Jupiter	31430-07-08 20:38 G	13200820.11	13200820.36	13200820.61	0.0527	0.0158
Neptune	31453-11-27 08:24 G	13209362.56	13209362.85	13209363.18	0.0088	0.0028
Neptune	31455-10-23 18:29 G	13210057.99	13210058.27	13210058.57	0.0088	0.0040
Uranus	31463-03-02 06:29 G	13212744.71	13212744.77	13212744.85	0.0145	0.0141
Saturn	31468-10-26 16:33 G	13214810.02	13214810.19	13214810.38	0.0262	0.0207
Uranus	31503-09-17 10:05 G	13227552.61	13227552.92	13227553.23	0.0133	0.0004
Saturn	31513-02-19 10:48 G	13230995.68	13230995.95	13230996.24	0.0299	0.0087
Saturn	31527-02-03 21:21 G	13236093.26	13236093.39	13236093.52	0.0262	0.0233
Jupiter	31531-01-09 03:50 G	13237528.38	13237528.66	13237528.94	0.0500	0.0105
Neptune	31535-10-31 11:02 G	13239284.71	13239284.96	13239285.23	0.0089	0.0045
Neptune	31537-09-24 17:45 G	13239978.95	13239979.24	13239979.53	0.0089	0.0021
Neptune	31539-08-19 21:21 G	13240673.33	13240673.39	13240673.50	0.0090	0.0086
Uranus	31545-11-23 03:50 G	13242960.41	13242960.66	13242960.95	0.0145	0.0068
Jupiter	31548-12-29 03:07 G	13244092.59	13244092.63	13244092.68	0.0526	0.0516
Saturn	31557-03-22 12:57 G	13247097.92	13247098.04	13247098.20	0.0262	0.0230
Uranus	31588-05-12 04:19 G	13258471.49	13258471.68	13258471.92	0.0133	0.0096
Saturn	31601-07-15 01:55 G	13263283.32	13263283.58	13263283.86	0.0299	0.0111
Saturn	31615-06-29 19:12 G	13268381.14	13268381.30	13268381.49	0.0262	0.0208
Neptune	31617-07-12 11:31 G	13269124.71	13269124.98	13269125.26	0.0088	0.0047
Neptune	31619-06-07 20:09 G	13269820.04	13269820.34	13269820.68	0.0088	0.0021
Uranus	31630-07-19 19:41 G	13273880.06	13273880.32	13273880.62	0.0145	0.0059
Uranus	31671-02-03 13:12 G	13288688.78	13288689.05	13288689.33	0.0133	0.0065
Jupiter	31685-04-05 02:09 G	13293863.38	13293863.59	13293863.82	0.0500	0.0317

Saturn	31689-12-07 03:50 G	13295570.39	13295570.66	13295570.95	0.0299	0.0104
Neptune	31699-06-15 10:48 G	13299047.76	13299047.95	13299048.18	0.0089	0.0065
Neptune	31701-05-10 18:43 G	13299741.98	13299742.28	13299742.58	0.0089	0.0002
Jupiter	31703-03-27 06:57 G	13300427.53	13300427.79	13300428.05	0.0526	0.0066
Neptune	31703-04-04 23:17 G	13300436.29	13300436.47	13300436.69	0.0089	0.0067
Saturn	31703-11-24 04:05 G	13300669.46	13300669.67	13300669.90	0.0263	0.0167
Uranus	31713-04-12 04:48 G	13304096.67	13304096.70	13304096.77	0.0145	0.0143
Uranus	31755-09-30 12:43 G	13319607.73	13319608.03	13319608.33	0.0133	0.0038
Saturn	31778-05-03 20:24 G	13327859.11	13327859.35	13327859.59	0.0299	0.0173
Neptune	31781-02-24 15:21 G	13328886.95	13328887.14	13328887.37	0.0088	0.0067
Neptune	31783-01-20 21:21 G	13329582.06	13329582.39	13329582.72	0.0088	0.0000
Neptune	31784-12-16 05:31 G	13330277.56	13330277.73	13330277.97	0.0088	0.0069
Saturn	31792-04-18 20:09 G	13332958.09	13332958.34	13332958.61	0.0263	0.0117
Uranus	31797-12-06 19:12 G	13335016.01	13335016.30	13335016.61	0.0145	0.0018
Jupiter	31803-09-25 21:07 G	13337134.21	13337134.38	13337134.57	0.0501	0.0390
Uranus	31838-06-24 19:26 G	13349825.22	13349825.31	13349825.45	0.0133	0.0125
Jupiter	31857-06-21 01:26 G	13356761.33	13356761.56	13356761.80	0.0526	0.0232
Neptune	31863-01-30 06:14 G	13358810.67	13358810.76	13358810.85	0.0089	0.0085
Neptune	31864-12-24 16:33 G	13359504.89	13359505.19	13359505.48	0.0089	0.0019
Saturn	31866-09-28 14:53 G	13360147.96	13360148.12	13360148.32	0.0299	0.0235
Neptune	31866-11-18 23:45 G	13360199.25	13360199.49	13360199.76	0.0089	0.0047
Saturn	31880-09-13 20:24 G	13365247.07	13365247.35	13365247.64	0.0263	0.0048
Uranus	31882-08-03 03:50 G	13365935.48	13365935.66	13365935.89	0.0145	0.0106
Uranus	31923-02-18 21:50 G	13380744.10	13380744.41	13380744.73	0.0133	0.0020
Neptune	31944-10-10 19:12 G	13388649.28	13388649.30	13388649.38	0.0088	0.0087
Neptune	31946-09-06 00:00 G	13389344.19	13389344.50	13389344.82	0.0088	0.0020
Neptune	31948-08-01 06:00 G	13390039.50	13390039.75	13390040.05	0.0088	0.0048
Pluto	31948-12-16 20:24 G	13390177.27	13390177.35	13390177.51	0.0082	0.0077
Jupiter	31957-12-19 23:45 G	13393467.22	13393467.49	13393467.76	0.0501	0.0150
Uranus	31965-04-26 05:45 G	13396151.57	13396151.74	13396151.97	0.0145	0.0108

Saturn 31969-02-09 11:31 G 13397536.70 13397536.98 13397537.27 0.0263 0.0033

33RD MILLENNIUM CE

This is a list of transits of Mars in the 33rd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Uranus	32007-10-14 21:36 G		13411663.17	13411663.40	13411663.66	0.0133	0.0083	
Jupiter	32011-09-15 12:57 G		13413094.96	13413095.04	13413095.12	0.0526	0.0498	
Saturn	32013-05-30 13:26 G		13413717.98	13413718.06	13413718.18	0.0298	0.0280	
Neptune	32028-08-09 11:02 G		13419267.71	13419267.96	13419268.26	0.0089	0.0040	
Neptune	32030-07-04 20:38 G		13419962.09	13419962.36	13419962.67	0.0090	0.0027	
Uranus	32049-12-20 12:14 G		13427070.71	13427071.01	13427071.31	0.0145	0.0014	
Saturn	32057-07-06 18:57 G		13429826.04	13429826.29	13429826.56	0.0263	0.0111	
Uranus	32090-07-08 05:31 G		13441880.50	13441880.73	13441881.00	0.0133	0.0079	
Saturn	32101-10-26 15:36 G		13446007.91	13446008.15	13446008.40	0.0298	0.0163	
Neptune	32110-04-21 01:41 G		13449106.31	13449106.57	13449106.88	0.0088	0.0041	
Jupiter	32112-03-15 06:00 G		13449800.47	13449800.75	13449801.03	0.0501	0.0110	
Neptune	32112-03-16 06:29 G		13449801.48	13449801.77	13449802.10	0.0088	0.0027	
Jupiter	32130-03-06 11:02 G		13456365.74	13456365.96	13456366.17	0.0525	0.0316	
Uranus	32134-08-17 02:53 G		13457990.60	13457990.62	13457990.70	0.0145	0.0144	
Saturn	32145-12-02 09:50 G		13462115.72	13462115.91	13462116.13	0.0263	0.0187	
Uranus	32175-03-04 08:09 G		13472799.53	13472799.84	13472800.15	0.0133	0.0028	
Saturn	32190-03-23 04:19 G		13478297.40	13478297.68	13478297.97	0.0298	0.0075	
Neptune	32192-03-25 03:21 G		13479030.43	13479030.64	13479030.88	0.0089	0.0061	

Neptune	32194-02-17 14:24 G	13479724.79	13479725.10	13479725.40	0.0089	0.0006
Pluto	32195-05-10 15:50 G	13480171.81	13480172.16	13480172.52	0.0082	0.0002
Neptune	32196-01-12 23:02 G	13480419.29	13480419.46	13480419.65	0.0090	0.0071
Saturn	32204-03-12 11:31 G	13483399.85	13483399.98	13483400.13	0.0263	0.0229
Uranus	32217-05-10 15:07 G	13488206.87	13488207.13	13488207.41	0.0145	0.0063
Saturn	32234-04-29 02:38 G	13494404.51	13494404.61	13494404.75	0.0262	0.0239
Jupiter	32266-06-09 20:09 G	13506134.19	13506134.34	13506134.50	0.0501	0.0412
Neptune	32273-12-04 06:00 G	13508868.54	13508868.75	13508869.00	0.0088	0.0061
Neptune	32275-10-30 07:41 G	13509563.50	13509563.82	13509564.15	0.0088	0.0006
Neptune	32277-09-24 12:14 G	13510258.86	13510259.01	13510259.22	0.0088	0.0073
Saturn	32278-08-18 00:57 G	13510586.25	13510586.54	13510586.84	0.0299	0.0006
Jupiter	32284-05-31 05:02 G	13512699.45	13512699.71	13512699.98	0.0525	0.0015
Saturn	32292-08-05 22:19 G	13515688.24	13515688.43	13515688.65	0.0263	0.0187
Uranus	32302-01-05 10:48 G	13519126.69	13519126.95	13519127.21	0.0145	0.0071
Uranus	32342-07-23 21:50 G	13533936.11	13533936.41	13533936.73	0.0133	0.0027
Pluto	32350-07-17 04:19 G	13536851.46	13536851.68	13536851.93	0.0063	0.0035
Neptune	32355-11-09 14:38 G	13538793.03	13538793.11	13538793.24	0.0089	0.0084
Neptune	32357-10-04 05:31 G	13539487.44	13539487.73	13539488.04	0.0089	0.0017
Neptune	32359-08-29 15:50 G	13540181.91	13540182.16	13540182.41	0.0090	0.0050
Saturn	32367-01-11 11:45 G	13542873.70	13542873.99	13542874.29	0.0299	0.0004
Saturn	32380-12-31 12:57 G	13547976.80	13547977.04	13547977.28	0.0263	0.0144
Uranus	32384-09-27 22:33 G	13549343.37	13549343.44	13549343.56	0.0145	0.0137
Jupiter	32384-11-29 01:26 G	13549405.33	13549405.56	13549405.80	0.0503	0.0265
Uranus	32427-03-19 03:50 G	13564855.44	13564855.66	13564855.92	0.0133	0.0084
Neptune	32437-07-19 10:33 G	13568630.85	13568630.94	13568631.10	0.0088	0.0081
Jupiter	32438-08-27 04:33 G	13569034.55	13569034.69	13569034.85	0.0525	0.0430
Neptune	32439-06-14 10:33 G	13569325.64	13569325.94	13569326.27	0.0088	0.0016
Neptune	32441-05-09 11:45 G	13570020.76	13570020.99	13570021.28	0.0088	0.0052
Saturn	32455-06-06 01:55 G	13575161.28	13575161.58	13575161.88	0.0299	0.0026
Uranus	32469-05-24 09:50 G	13580262.61	13580262.91	13580263.21	0.0145	0.0010

Saturn	32469-05-26 12:43 G	13580264.78	13580265.03	13580265.29	0.0263	0.0119
Uranus	32509-12-11 11:02 G	13595072.71	13595072.96	13595073.22	0.0133	0.0080
Neptune	32521-05-19 15:50 G	13599249.89	13599250.16	13599250.44	0.0089	0.0039
Neptune	32523-04-14 05:45 G	13599944.45	13599944.74	13599945.03	0.0089	0.0028
Jupiter	32539-02-25 02:24 G	13605740.34	13605740.60	13605740.87	0.0502	0.0170
Saturn	32543-10-29 18:57 G	13607447.99	13607448.29	13607448.59	0.0298	0.0006
Uranus	32554-01-18 13:55 G	13611181.91	13611182.08	13611182.28	0.0145	0.0114
Jupiter	32557-02-16 09:21 G	13612306.66	13612306.89	13612307.13	0.0523	0.0243
Saturn	32557-10-20 18:57 G	13612553.02	13612553.29	13612553.56	0.0263	0.0082
Uranus	32594-08-06 18:00 G	13625991.95	13625992.25	13625992.57	0.0133	0.0031
Pluto	32596-12-08 13:12 G	13626846.77	13626847.05	13626847.34	0.0063	0.0010
Neptune	32603-01-28 13:55 G	13629087.81	13629088.08	13629088.40	0.0088	0.0036
Neptune	32604-12-23 14:24 G	13629782.80	13629783.10	13629783.41	0.0088	0.0030
Saturn	32632-03-24 17:02 G	13639735.92	13639736.21	13639736.51	0.0299	0.0047
Uranus	32636-10-12 01:41 G	13641398.37	13641398.57	13641398.81	0.0145	0.0098
Saturn	32646-03-17 02:09 G	13644841.31	13644841.59	13644841.87	0.0263	0.0045
Jupiter	32657-08-16 11:45 G	13649011.99	13649011.99	13649012.01	0.0504	0.0503
Neptune	32685-01-01 23:17 G	13659012.28	13659012.47	13659012.73	0.0089	0.0063
Neptune	32686-11-27 14:38 G	13659706.81	13659707.11	13659707.43	0.0089	0.0006
Neptune	32688-10-22 03:50 G	13660401.51	13660401.66	13660401.87	0.0090	0.0072
Jupiter	32711-05-15 15:21 G	13668640.88	13668641.14	13668641.40	0.0524	0.0114
Saturn	32720-08-18 15:36 G	13672023.86	13672024.15	13672024.44	0.0298	0.0077
Uranus	32721-06-08 13:12 G	13672317.77	13672318.05	13672318.35	0.0145	0.0032
Saturn	32734-08-11 16:19 G	13677129.90	13677130.18	13677130.47	0.0264	0.0009
Uranus	32761-12-26 03:07 G	13687128.32	13687128.63	13687128.95	0.0134	0.0025
Neptune	32766-09-12 18:43 G	13688850.05	13688850.28	13688850.53	0.0088	0.0056
Neptune	32768-08-07 16:48 G	13689544.89	13689545.20	13689545.53	0.0088	0.0010
Neptune	32770-07-03 17:45 G	13690240.10	13690240.24	13690240.42	0.0088	0.0076
Saturn	32809-01-13 05:45 G	13704313.51	13704313.74	13704313.98	0.0298	0.0181
Jupiter	32811-11-10 22:19 G	13705345.19	13705345.43	13705345.68	0.0504	0.0230

Saturn	32823-01-05 20:24 G	13709419.08	13709419.35	13709419.63	0.0263	0.0073
Uranus	32846-08-21 10:48 G	13718047.74	13718047.95	13718048.21	0.0133	0.0089
Neptune	32848-08-17 06:14 G	13718774.70	13718774.76	13718774.88	0.0089	0.0086
Neptune	32850-07-13 00:14 G	13719469.21	13719469.51	13719469.82	0.0089	0.0018
Neptune	32852-06-06 13:55 G	13720163.85	13720164.08	13720164.36	0.0089	0.0050
Jupiter	32865-08-08 10:19 G	13724974.78	13724974.93	13724975.09	0.0524	0.0425
Uranus	32888-10-26 03:36 G	13733454.37	13733454.65	13733454.94	0.0145	0.0039
Saturn	32897-06-10 00:43 G	13736603.44	13736603.53	13736603.61	0.0298	0.0284
Saturn	32911-06-03 00:57 G	13741708.32	13741708.54	13741708.79	0.0264	0.0147
Uranus	32929-05-15 13:26 G	13748264.83	13748265.06	13748265.34	0.0134	0.0081
Neptune	32930-04-28 01:41 G	13748612.45	13748612.57	13748612.76	0.0088	0.0077
Neptune	32932-03-22 21:21 G	13749307.08	13749307.39	13749307.72	0.0088	0.0012
Neptune	32934-02-15 18:43 G	13750002.06	13750002.28	13750002.56	0.0088	0.0055
Jupiter	32966-02-04 04:05 G	13761678.39	13761678.67	13761678.95	0.0503	0.0027
Saturn	32969-09-10 14:53 G	13762993.07	13762993.12	13762993.21	0.0265	0.0257
Uranus	32973-06-22 17:17 G	13764374.00	13764374.22	13764374.45	0.0145	0.0094
Jupiter	32984-01-27 23:02 G	13768245.31	13768245.46	13768245.63	0.0522	0.0415
Saturn	32999-10-28 18:43 G	13773998.15	13773998.28	13773998.43	0.0263	0.0228

34TH MILLENNIUM CE

This is a list of transits of Mars in the 34th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	33014-01-09 23:02 G		13779184.17	13779184.46	13779184.78	0.0133	0.0034	

Neptune	33014-02-26 06:14 G	13779231.49	13779231.76	13779232.04	0.0089	0.0041
Neptune	33016-01-21 23:31 G	13779926.19	13779926.48	13779926.78	0.0089	0.0027
Saturn	33044-02-10 12:14 G	13790172.84	13790173.01	13790173.19	0.0297	0.0240
Uranus	33056-03-16 08:09 G	13794590.69	13794590.84	13794591.02	0.0145	0.0119
Saturn	33058-02-06 08:38 G	13795282.66	13795282.86	13795283.08	0.0264	0.0176
Neptune	33095-11-06 04:19 G	13809069.40	13809069.68	13809069.99	0.0088	0.0032
Neptune	33097-10-01 00:14 G	13809764.23	13809764.51	13809764.82	0.0088	0.0034
Jupiter	33120-05-01 08:38 G	13818011.64	13818011.86	13818012.09	0.0504	0.0289
Saturn	33132-07-08 03:21 G	13822462.39	13822462.64	13822462.92	0.0297	0.0140
Jupiter	33138-04-24 06:00 G	13824578.49	13824578.75	13824579.01	0.0522	0.0152
Uranus	33140-11-10 12:43 G	13825509.74	13825510.03	13825510.33	0.0145	0.0007
Saturn	33146-07-04 08:24 G	13827571.60	13827571.85	13827572.11	0.0264	0.0115
Neptune	33177-10-11 12:43 G	13838993.84	13838994.03	13838994.27	0.0089	0.0064
Pluto	33179-01-19 16:05 G	13839458.89	13839459.17	13839459.47	0.0082	0.0046
Neptune	33179-09-06 07:55 G	13839688.52	13839688.83	13839689.14	0.0089	0.0004
Uranus	33181-05-30 05:17 G	13840320.41	13840320.72	13840321.04	0.0134	0.0025
Neptune	33181-07-31 23:45 G	13840383.34	13840383.49	13840383.71	0.0089	0.0072
Saturn	33220-12-01 10:05 G	13854750.63	13854750.92	13854751.21	0.0297	0.0099
Uranus	33225-07-06 19:41 G	13856429.22	13856429.32	13856429.43	0.0145	0.0135
Saturn	33234-11-28 08:24 G	13859860.58	13859860.85	13859861.13	0.0264	0.0059
Jupiter	33238-10-20 12:57 G	13861282.89	13861283.04	13861283.20	0.0505	0.0414
Neptune	33259-06-21 12:57 G	13868831.80	13868832.04	13868832.31	0.0088	0.0052
Neptune	33261-05-16 07:26 G	13869526.50	13869526.81	13869527.13	0.0088	0.0013
Neptune	33263-04-11 04:19 G	13870221.55	13870221.68	13870221.82	0.0088	0.0079
Uranus	33266-01-23 09:36 G	13871239.67	13871239.90	13871240.15	0.0134	0.0088
Jupiter	33292-07-18 19:41 G	13880913.09	13880913.32	13880913.56	0.0522	0.0257
Uranus	33308-03-30 19:41 G	13886646.08	13886646.32	13886646.59	0.0144	0.0073
Saturn	33309-04-27 07:55 G	13887038.53	13887038.83	13887039.12	0.0298	0.0061
Saturn	33323-04-24 12:29 G	13892148.74	13892149.02	13892149.30	0.0264	0.0029
Pluto	33334-03-31 19:12 G	13896143.04	13896143.30	13896143.58	0.0063	0.0022

Neptune	33341-05-26 18:43 G	13898756.24	13898756.28	13898756.40	0.0089	0.0087
Neptune	33343-04-21 16:33 G	13899450.90	13899451.19	13899451.51	0.0089	0.0018
Neptune	33345-03-16 10:05 G	13900145.69	13900145.92	13900146.21	0.0089	0.0051
Uranus	33348-10-17 03:50 G	13901456.45	13901456.66	13901456.93	0.0134	0.0090
Uranus	33392-11-24 09:07 G	13917565.61	13917565.88	13917566.15	0.0145	0.0062
Jupiter	33393-01-15 11:17 G	13917617.70	13917617.97	13917618.25	0.0505	0.0012
Saturn	33397-09-18 23:31 G	13919325.19	13919325.48	13919325.78	0.0297	0.0081
Jupiter	33411-01-09 18:00 G	13924185.10	13924185.25	13924185.40	0.0521	0.0431
Saturn	33411-09-18 16:33 G	13924436.90	13924437.19	13924437.47	0.0264	0.0006
Neptune	33423-02-05 02:09 G	13928594.42	13928594.59	13928594.78	0.0088	0.0071
Neptune	33424-12-30 17:17 G	13929288.91	13929289.22	13929289.54	0.0088	0.0007
Neptune	33426-11-25 11:17 G	13929983.76	13929983.97	13929984.23	0.0088	0.0059
Uranus	33433-06-13 12:00 G	13932375.68	13932376.00	13932376.31	0.0134	0.0026
Uranus	33475-08-19 12:57 G	13947783.04	13947783.04	13947783.07	0.0144	0.0144
Saturn	33486-02-12 06:57 G	13951612.49	13951612.79	13951613.09	0.0297	0.0063
Saturn	33500-02-11 15:36 G	13956724.87	13956725.15	13956725.43	0.0264	0.0027
Neptune	33506-12-06 00:29 G	13959213.26	13959213.52	13959213.82	0.0089	0.0040
Neptune	33508-10-30 21:50 G	13959908.13	13959908.41	13959908.72	0.0089	0.0029
Jupiter	33547-04-13 19:26 G	13973952.13	13973952.31	13973952.50	0.0505	0.0376
Uranus	33560-04-14 19:41 G	13978702.03	13978702.32	13978702.62	0.0144	0.0015
Jupiter	33565-04-06 10:33 G	13980519.67	13980519.94	13980520.21	0.0521	0.0021
Saturn	33574-07-08 08:24 G	13983899.55	13983899.85	13983900.15	0.0297	0.0064
Pluto	33580-08-24 11:17 G	13986138.75	13986138.97	13986139.20	0.0063	0.0039
Saturn	33588-07-07 21:36 G	13989013.13	13989013.40	13989013.67	0.0265	0.0068
Neptune	33588-08-15 06:29 G	13989051.48	13989051.77	13989052.08	0.0088	0.0026
Neptune	33590-07-10 22:48 G	13989746.18	13989746.45	13989746.75	0.0088	0.0039
Uranus	33600-10-31 10:05 G	13993511.63	13993511.92	13993512.25	0.0134	0.0040
Uranus	33644-12-08 21:21 G	14009621.20	14009621.39	14009621.58	0.0145	0.0111
Saturn	33662-12-02 00:57 G	14016188.24	14016188.54	14016188.84	0.0297	0.0005
Jupiter	33665-10-02 06:57 G	14017223.58	14017223.79	14017224.00	0.0506	0.0319

Neptune	33670-07-20 09:36 G	14018975.70	14018975.90	14018976.16	0.0089	0.0061
Neptune	33672-06-14 09:07 G	14019670.57	14019670.88	14019671.20	0.0089	0.0009
Neptune	33674-05-10 05:17 G	14020365.59	14020365.72	14020365.91	0.0089	0.0077
Saturn	33676-12-01 14:38 G	14021301.86	14021302.11	14021302.37	0.0264	0.0116
Uranus	33685-06-26 17:45 G	14024430.99	14024431.24	14024431.51	0.0134	0.0076
Jupiter	33719-07-02 19:26 G	14036854.12	14036854.31	14036854.51	0.0521	0.0358
Uranus	33727-09-02 15:21 G	14039837.97	14039838.14	14039838.35	0.0144	0.0108
Saturn	33751-04-29 03:50 G	14048477.37	14048477.66	14048477.96	0.0296	0.0085
Neptune	33752-03-30 21:36 G	14048814.15	14048814.40	14048814.69	0.0088	0.0045
Neptune	33754-02-23 12:57 G	14049508.74	14049509.04	14049509.35	0.0088	0.0020
Neptune	33756-01-19 06:00 G	14050203.68	14050203.75	14050203.83	0.0088	0.0085
Saturn	33765-04-28 13:41 G	14053590.88	14053591.07	14053591.29	0.0265	0.0182
Uranus	33768-03-19 23:31 G	14054647.32	14054647.48	14054647.66	0.0134	0.0114
Uranus	33812-04-28 18:00 G	14070756.96	14070757.25	14070757.54	0.0144	0.0019
Jupiter	33819-12-28 19:55 G	14073557.06	14073557.33	14073557.60	0.0505	0.0038
Saturn	33823-08-08 06:14 G	14074875.63	14074875.76	14074875.92	0.0267	0.0225
Neptune	33834-03-05 18:43 G	14078738.18	14078738.28	14078738.44	0.0089	0.0082
Neptune	33836-01-29 20:09 G	14079433.03	14079433.34	14079433.65	0.0089	0.0012
Jupiter	33837-12-21 05:45 G	14080124.65	14080124.74	14080124.84	0.0520	0.0484
Neptune	33837-12-24 17:45 G	14080128.01	14080128.24	14080128.49	0.0089	0.0057
Saturn	33839-09-25 13:55 G	14080767.88	14080768.08	14080768.30	0.0297	0.0212
Uranus	33852-11-14 04:05 G	14085566.34	14085566.67	14085566.99	0.0134	0.0002
Saturn	33853-09-24 04:19 G	14085880.62	14085880.68	14085880.75	0.0265	0.0257
Saturn	33912-01-04 00:57 G	14107165.31	14107165.54	14107165.78	0.0266	0.0143
Neptune	33915-11-15 16:48 G	14108577.01	14108577.20	14108577.44	0.0088	0.0063
Neptune	33917-10-10 05:17 G	14109271.41	14109271.72	14109272.04	0.0088	0.0002
Neptune	33919-09-04 20:38 G	14109966.17	14109966.36	14109966.57	0.0088	0.0067
Uranus	33937-07-11 05:02 G	14116485.58	14116485.71	14116485.91	0.0134	0.0115
Jupiter	33974-03-23 21:07 G	14129890.13	14129890.38	14129890.63	0.0506	0.0203
Uranus	33979-09-17 05:45 G	14131893.48	14131893.74	14131894.01	0.0144	0.0061

Jupiter 33992-03-16 05:17 G 14136457.48 14136457.72 14136457.96 0.0520 0.0247

Neptune 33999-09-14 08:09 G 14139195.56 14139195.84 14139196.15 0.0089 0.0032

Saturn 34000-05-30 08:09 G 14139454.58 14139454.84 14139455.12 0.0266 0.0073

35TH MILLENNIUM CE

This is a list of transits of Mars in the 35th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Neptune	34001-08-09 08:38	G	14139890.58	14139890.86	14139891.15	0.0089	0.0038	
Uranus	34020-04-02 12:14	G	14146701.76	14146702.01	14146702.30	0.0134	0.0076	
Uranus	34064-05-12 10:48	G	14162812.70	14162812.95	14162813.22	0.0144	0.0069	
Pluto	34071-07-22 15:21	G	14165439.90	14165440.14	14165440.41	0.0063	0.0029	
Saturn	34074-10-20 20:53	G	14166626.20	14166626.37	14166626.57	0.0295	0.0235	
Neptune	34079-06-30 14:24	G	14168339.99	14168340.10	14168340.24	0.0088	0.0081	
Neptune	34081-05-25 01:55	G	14169034.27	14169034.58	14169034.88	0.0088	0.0016	
Neptune	34083-04-19 13:55	G	14169728.84	14169729.08	14169729.36	0.0088	0.0049	
Saturn	34088-10-24 18:29	G	14171743.99	14171744.27	14171744.55	0.0266	0.0002	
Uranus	34104-11-27 16:33	G	14177620.88	14177621.19	14177621.50	0.0134	0.0039	
Jupiter	34146-06-11 05:31	G	14192791.46	14192791.73	14192792.00	0.0520	0.0110	
Pluto	34162-10-02 12:29	G	14198748.97	14198749.02	14198749.16	0.0082	0.0079	
Saturn	34163-03-17 13:12	G	14198914.80	14198915.05	14198915.30	0.0296	0.0167	
Neptune	34163-04-29 18:29	G	14198958.02	14198958.27	14198958.55	0.0089	0.0051	
Neptune	34165-03-24 21:36	G	14199653.09	14199653.40	14199653.71	0.0089	0.0019	
Neptune	34167-02-17 20:53	G	14200348.34	14200348.37	14200348.46	0.0089	0.0088	

Saturn	34177-03-21 10:05 G	14204032.65	14204032.92	14204033.20	0.0265	0.0044
Uranus	34231-10-01 06:57 G	14223948.51	14223948.79	14223949.08	0.0144	0.0027
Neptune	34245-01-08 23:31 G	14228797.20	14228797.48	14228797.77	0.0088	0.0034
Neptune	34246-12-04 11:17 G	14229491.69	14229491.97	14229492.27	0.0088	0.0031
Jupiter	34246-12-08 13:41 G	14229495.81	14229496.07	14229496.33	0.0507	0.0145
Saturn	34251-08-10 18:00 G	14231202.00	14231202.25	14231202.51	0.0295	0.0164
Saturn	34265-08-15 22:33 G	14236321.18	14236321.44	14236321.71	0.0265	0.0089
Uranus	34272-04-15 22:05 G	14238756.12	14238756.42	14238756.74	0.0134	0.0042
Jupiter	34300-09-06 18:14 G	14249126.24	14249126.26	14249126.30	0.0520	0.0517
Uranus	34316-05-27 01:55 G	14254867.38	14254867.58	14254867.82	0.0144	0.0095
Pluto	34317-12-16 13:26 G	14255435.88	14255436.06	14255436.27	0.0063	0.0046
Neptune	34326-12-14 05:31 G	14258720.54	14258720.73	14258720.94	0.0089	0.0070
Neptune	34328-11-08 09:50 G	14259415.60	14259415.91	14259416.23	0.0089	0.0001
Neptune	34330-10-04 11:17 G	14260110.80	14260110.97	14260111.20	0.0089	0.0070
Saturn	34340-01-04 00:14 G	14263489.25	14263489.51	14263489.79	0.0296	0.0147
Saturn	34354-01-09 22:48 G	14268609.20	14268609.45	14268609.70	0.0265	0.0111
Uranus	34356-12-10 23:31 G	14269675.23	14269675.48	14269675.78	0.0134	0.0074
Uranus	34399-02-18 04:19 G	14285084.56	14285084.68	14285084.85	0.0144	0.0124
Jupiter	34401-03-04 23:02 G	14285830.22	14285830.46	14285830.71	0.0507	0.0225
Neptune	34408-08-25 00:00 G	14288560.25	14288560.50	14288560.75	0.0088	0.0051
Neptune	34410-07-20 09:07 G	14289254.58	14289254.88	14289255.19	0.0088	0.0014
Neptune	34412-06-13 21:21 G	14289949.28	14289949.39	14289949.55	0.0088	0.0079
Jupiter	34419-02-26 11:45 G	14292397.73	14292397.99	14292398.24	0.0519	0.0185
Saturn	34428-05-27 14:53 G	14295775.86	14295776.12	14295776.38	0.0295	0.0162
Uranus	34439-09-02 17:45 G	14299891.19	14299891.24	14299891.35	0.0135	0.0131
Saturn	34442-06-04 23:31 G	14300897.25	14300897.48	14300897.73	0.0266	0.0144
Uranus	34483-10-14 06:29 G	14316003.48	14316003.77	14316004.06	0.0144	0.0005
Neptune	34490-07-28 14:24 G	14318483.10	14318483.10	14318483.15	0.0089	0.0089
Neptune	34492-06-22 22:05 G	14319178.12	14319178.42	14319178.75	0.0089	0.0019
Neptune	34494-05-19 01:26 G	14319873.33	14319873.56	14319873.85	0.0089	0.0053

Saturn	34516-10-21 09:50 G	14328063.63	14328063.91	14328064.19	0.0295	0.0126
Jupiter	34519-08-26 00:14 G	14329102.38	14329102.51	14329102.65	0.0508	0.0435
Uranus	34524-04-28 22:48 G	14330810.14	14330810.45	14330810.79	0.0134	0.0013
Saturn	34530-10-30 03:21 G	14333185.44	14333185.64	14333185.86	0.0266	0.0172
Uranus	34568-06-09 09:21 G	14346922.84	14346922.89	14346923.00	0.0144	0.0138
Neptune	34572-04-10 03:07 G	14348323.45	14348323.63	14348323.85	0.0088	0.0067
Jupiter	34573-05-24 10:19 G	14348732.70	14348732.93	14348733.17	0.0519	0.0263
Neptune	34574-03-05 11:02 G	14349017.66	14349017.96	14349018.27	0.0088	0.0003
Neptune	34576-01-28 19:41 G	14349712.12	14349712.32	14349712.56	0.0088	0.0062
Saturn	34589-02-06 10:19 G	14354469.86	14354469.93	14354470.04	0.0268	0.0253
Saturn	34605-03-17 11:45 G	14360351.69	14360351.99	14360352.29	0.0294	0.0084
Uranus	34608-12-24 02:53 G	14361729.43	14361729.62	14361729.84	0.0134	0.0106
Saturn	34619-03-26 14:09 G	14365473.95	14365474.09	14365474.26	0.0267	0.0219
Uranus	34651-03-04 16:33 G	14377139.95	14377140.19	14377140.43	0.0144	0.0080
Neptune	34656-02-07 06:43 G	14378940.51	14378940.78	14378941.10	0.0089	0.0038
Neptune	34658-01-02 13:41 G	14379635.79	14379636.07	14379636.38	0.0089	0.0034
Jupiter	34673-11-19 23:02 G	14385436.20	14385436.46	14385436.73	0.0507	0.0114
Saturn	34677-07-04 03:07 G	14386758.46	14386758.63	14386758.82	0.0269	0.0200
Uranus	34691-09-16 00:00 G	14391945.30	14391945.50	14391945.75	0.0135	0.0097
Saturn	34693-08-12 04:33 G	14392641.38	14392641.69	14392642.00	0.0294	0.0016
Uranus	34735-10-29 11:31 G	14408058.71	14408058.98	14408059.26	0.0144	0.0045
Neptune	34735-11-26 06:00 G	14408086.69	14408086.75	14408086.89	0.0088	0.0084
Neptune	34737-10-20 12:29 G	14408780.74	14408781.02	14408781.34	0.0088	0.0020
Neptune	34739-09-14 21:21 G	14409475.13	14409475.39	14409475.66	0.0088	0.0046
Saturn	34765-11-29 15:36 G	14419047.92	14419048.15	14419048.40	0.0268	0.0127
Uranus	34776-05-12 06:14 G	14422864.45	14422864.76	14422865.09	0.0134	0.0024
Saturn	34782-01-08 06:43 G	14424931.51	14424931.78	14424932.07	0.0295	0.0134
Pluto	34808-11-12 18:43 G	14434737.03	14434737.28	14434737.58	0.0063	0.0020
Neptune	34819-09-22 16:33 G	14438702.97	14438703.19	14438703.47	0.0089	0.0056
Neptune	34821-08-18 00:43 G	14439398.22	14439398.53	14439398.86	0.0089	0.0016

Neptune	34823-07-14 06:14 G	14440093.69	14440093.76	14440093.87	0.0089	0.0086
Jupiter	34828-02-14 02:53 G	14441769.36	14441769.62	14441769.88	0.0508	0.0136
Jupiter	34846-02-05 20:24 G	14448336.14	14448336.35	14448336.58	0.0518	0.0315
Saturn	34854-04-26 02:24 G	14451337.33	14451337.60	14451337.88	0.0268	0.0051
Saturn	34870-06-05 18:57 G	14457222.16	14457222.29	14457222.46	0.0295	0.0259
Neptune	34901-06-05 17:31 G	14468543.95	14468544.23	14468544.51	0.0088	0.0036
Uranus	34903-03-18 05:02 G	14469194.44	14469194.71	14469194.97	0.0144	0.0058
Neptune	34903-04-30 23:02 G	14469238.19	14469238.46	14469238.77	0.0088	0.0029
Saturn	34942-09-21 20:38 G	14483627.09	14483627.36	14483627.64	0.0268	0.0033
Uranus	34943-09-29 00:43 G	14483999.26	14483999.53	14483999.84	0.0135	0.0066
Jupiter	34982-05-10 13:26 G	14498102.92	14498103.06	14498103.23	0.0507	0.0415
Neptune	34983-05-07 23:02 G	14498465.29	14498465.46	14498465.63	0.0089	0.0076
Neptune	34985-04-02 09:50 G	14499160.59	14499160.91	14499161.24	0.0089	0.0004
Neptune	34987-02-26 16:48 G	14499856.01	14499856.20	14499856.43	0.0089	0.0068
Uranus	34987-11-11 00:57 G	14500113.30	14500113.54	14500113.81	0.0144	0.0069
Jupiter	35000-05-03 06:57 G	14504669.51	14504669.79	14504670.07	0.0518	0.0008

36TH MILLENNIUM CE

This is a list of transits of Mars in the 36th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	35017-02-03 14:09 G		14510790.08	14510790.09	14510790.13	0.0293	0.0292	
Uranus	35028-05-25 04:48 G		14514918.40	14514918.70	14514919.00	0.0135	0.0054	
Saturn	35031-02-16 22:48 G		14515916.20	14515916.45	14515916.72	0.0267	0.0095	

Pluto	35055-04-08 10:48 G	14524732.79	14524732.95	14524733.18	0.0063	0.0046
Neptune	35065-01-19 22:19 G	14528307.21	14528307.43	14528307.70	0.0088	0.0053
Neptune	35066-12-15 03:21 G	14529001.34	14529001.64	14529001.95	0.0088	0.0012
Neptune	35068-11-08 09:07 G	14529695.76	14529695.88	14529696.05	0.0088	0.0077
Jupiter	35100-10-31 08:09 G	14541374.62	14541374.84	14541375.06	0.0509	0.0283
Saturn	35105-06-30 15:36 G	14543078.01	14543078.15	14543078.31	0.0293	0.0256
Saturn	35119-07-14 20:24 G	14548205.12	14548205.35	14548205.58	0.0267	0.0152
Neptune	35148-11-16 16:33 G	14558922.89	14558923.19	14558923.52	0.0089	0.0023
Neptune	35150-10-13 03:21 G	14559618.38	14559618.64	14559618.92	0.0089	0.0049
Jupiter	35154-07-29 07:55 G	14561003.63	14561003.83	14561004.03	0.0518	0.0358
Uranus	35155-04-01 12:14 G	14561249.73	14561250.01	14561250.30	0.0144	0.0019
Saturn	35193-11-23 05:17 G	14575365.54	14575365.72	14575365.94	0.0293	0.0226
Uranus	35195-10-12 03:36 G	14576053.33	14576053.65	14576053.97	0.0135	0.0033
Saturn	35207-12-08 00:43 G	14580493.33	14580493.53	14580493.74	0.0267	0.0180
Neptune	35228-09-05 03:07 G	14588070.47	14588070.63	14588070.84	0.0088	0.0069
Neptune	35230-07-31 07:41 G	14588764.52	14588764.82	14588765.13	0.0088	0.0005
Neptune	35232-06-24 12:43 G	14589458.83	14589459.03	14589459.28	0.0088	0.0060
Uranus	35239-11-25 09:07 G	14592168.71	14592168.88	14592169.08	0.0144	0.0111
Jupiter	35255-01-25 13:12 G	14597708.79	14597709.05	14597709.32	0.0509	0.0068
Saturn	35266-03-17 04:05 G	14601777.58	14601777.67	14601777.76	0.0269	0.0255
Jupiter	35273-01-16 16:05 G	14604274.98	14604275.17	14604275.37	0.0517	0.0371
Uranus	35280-06-06 11:45 G	14606972.76	14606972.99	14606973.25	0.0134	0.0091
Saturn	35282-04-16 16:48 G	14607652.04	14607652.20	14607652.39	0.0292	0.0244
Saturn	35296-05-02 02:24 G	14612781.45	14612781.60	14612781.78	0.0268	0.0213
Neptune	35312-07-01 22:19 G	14618685.16	14618685.43	14618685.74	0.0089	0.0042
Neptune	35314-05-28 09:50 G	14619380.63	14619380.91	14619381.24	0.0089	0.0031
Uranus	35322-08-19 15:21 G	14622385.99	14622386.14	14622386.34	0.0144	0.0115
Saturn	35354-08-11 01:26 G	14634065.42	14634065.56	14634065.71	0.0270	0.0229
Uranus	35363-02-28 04:05 G	14637188.53	14637188.67	14637188.84	0.0135	0.0119
Saturn	35370-09-09 21:07 G	14639939.20	14639939.38	14639939.59	0.0292	0.0229

Saturn	35384-09-26 00:57 G	14645069.42	14645069.54	14645069.69	0.0268	0.0233
Neptune	35392-04-21 12:14 G	14647833.96	14647834.01	14647834.09	0.0088	0.0086
Neptune	35394-03-16 12:43 G	14648527.75	14648528.03	14648528.34	0.0088	0.0022
Neptune	35396-02-08 16:33 G	14649221.93	14649222.19	14649222.46	0.0088	0.0043
Uranus	35407-04-15 06:14 G	14653304.48	14653304.76	14653305.05	0.0144	0.0008
Jupiter	35409-04-23 05:02 G	14654043.60	14654043.71	14654043.82	0.0508	0.0462
Jupiter	35427-04-16 02:09 G	14660610.32	14660610.59	14660610.87	0.0517	0.0134
Saturn	35443-01-05 03:50 G	14666353.50	14666353.66	14666353.85	0.0270	0.0206
Uranus	35447-10-25 11:45 G	14668107.66	14668107.99	14668108.33	0.0134	0.0006
Saturn	35459-02-03 01:55 G	14672226.38	14672226.58	14672226.80	0.0291	0.0218
Saturn	35473-02-20 03:50 G	14677357.65	14677357.66	14677357.71	0.0269	0.0267
Neptune	35476-02-15 00:57 G	14678447.34	14678447.54	14678447.81	0.0089	0.0063
Neptune	35478-01-10 15:50 G	14679142.84	14679143.16	14679143.49	0.0089	0.0011
Neptune	35479-12-07 01:55 G	14679838.49	14679838.58	14679838.73	0.0089	0.0083
Uranus	35491-12-08 22:33 G	14684223.36	14684223.44	14684223.57	0.0144	0.0134
Jupiter	35527-10-14 10:19 G	14697315.69	14697315.93	14697316.18	0.0509	0.0206
Saturn	35531-06-01 10:33 G	14698641.74	14698641.94	14698642.16	0.0271	0.0171
Uranus	35532-06-20 17:31 G	14699027.16	14699027.23	14699027.35	0.0134	0.0129
Pluto	35546-03-06 16:48 G	14704033.95	14704034.20	14704034.49	0.0063	0.0023
Saturn	35547-06-30 21:36 G	14704515.13	14704515.40	14704515.67	0.0291	0.0151
Neptune	35557-10-31 19:12 G	14708291.04	14708291.30	14708291.58	0.0088	0.0040
Neptune	35559-09-25 20:09 G	14708985.07	14708985.34	14708985.65	0.0088	0.0025
Uranus	35574-09-02 09:21 G	14714440.69	14714440.89	14714441.13	0.0143	0.0091
Jupiter	35581-07-11 07:55 G	14716944.83	14716944.83	14716944.84	0.0518	0.0517
Uranus	35615-03-13 06:29 G	14729242.53	14729242.77	14729243.04	0.0135	0.0085
Saturn	35619-10-26 10:33 G	14730930.70	14730930.94	14730931.20	0.0271	0.0116
Saturn	35635-11-25 07:26 G	14736804.51	14736804.81	14736805.12	0.0291	0.0060
Pluto	35637-05-11 04:48 G	14737337.54	14737337.70	14737337.95	0.0082	0.0066
Neptune	35639-09-30 01:12 G	14738209.48	14738209.55	14738209.70	0.0089	0.0084
Neptune	35641-08-25 18:43 G	14738904.96	14738905.28	14738905.62	0.0089	0.0010

Neptune	35643-07-22 08:09 G	14739600.64	14739600.84	14739601.10	0.0089	0.0064
Uranus	35659-04-28 09:36 G	14745359.63	14745359.90	14745360.18	0.0144	0.0043
Jupiter	35682-01-06 23:45 G	14753649.22	14753649.49	14753649.75	0.0509	0.0077
Uranus	35699-11-06 18:29 G	14760161.97	14760162.27	14760162.60	0.0135	0.0044
Jupiter	35699-12-29 01:12 G	14760214.36	14760214.55	14760214.75	0.0516	0.0373
Saturn	35708-03-22 15:36 G	14763219.88	14763220.15	14763220.42	0.0271	0.0050
Neptune	35721-06-17 01:55 G	14768054.35	14768054.58	14768054.81	0.0088	0.0057
Neptune	35723-05-12 02:38 G	14768748.32	14768748.61	14768748.92	0.0088	0.0007
Saturn	35724-04-22 18:57 G	14769094.99	14769095.29	14769095.60	0.0291	0.0062
Neptune	35725-04-05 04:19 G	14769442.52	14769442.68	14769442.87	0.0088	0.0072
Pluto	35792-07-29 13:12 G	14794029.87	14794030.05	14794030.27	0.0063	0.0045
Saturn	35796-08-17 11:17 G	14795509.70	14795509.97	14795510.25	0.0271	0.0037
Neptune	35805-04-10 17:31 G	14798666.93	14798667.23	14798667.55	0.0089	0.0031
Neptune	35807-03-07 08:53 G	14799362.61	14799362.87	14799363.18	0.0089	0.0043
Saturn	35812-09-19 08:24 G	14801385.63	14801385.85	14801386.10	0.0292	0.0197
Uranus	35826-09-16 22:33 G	14806496.17	14806496.44	14806496.71	0.0144	0.0046
Jupiter	35836-04-03 07:12 G	14809982.60	14809982.80	14809983.00	0.0509	0.0336
Jupiter	35854-03-25 03:07 G	14816547.36	14816547.63	14816547.92	0.0516	0.0095
Uranus	35867-03-27 02:09 G	14821297.28	14821297.59	14821297.92	0.0135	0.0038
Saturn	35885-01-13 00:00 G	14827799.26	14827799.50	14827799.76	0.0270	0.0113
Neptune	35885-01-31 08:09 G	14827817.72	14827817.84	14827818.02	0.0088	0.0076
Neptune	35886-12-26 06:43 G	14828511.49	14828511.78	14828512.09	0.0088	0.0012
Neptune	35888-11-19 07:41 G	14829205.60	14829205.82	14829206.07	0.0088	0.0054
Uranus	35911-05-13 16:48 G	14837414.99	14837415.20	14837415.45	0.0144	0.0084
Uranus	35951-11-21 16:19 G	14852216.97	14852217.18	14852217.44	0.0134	0.0095
Jupiter	35954-09-24 00:00 G	14853254.34	14853254.50	14853254.67	0.0510	0.0393
Neptune	35968-11-23 13:41 G	14858428.84	14858429.07	14858429.37	0.0089	0.0054
Neptune	35970-10-20 08:09 G	14859124.54	14859124.84	14859125.18	0.0089	0.0021
Saturn	35973-06-10 11:45 G	14860088.82	14860088.99	14860089.20	0.0270	0.0192

37TH MILLENNIUM CE

This is a list of transits of Mars in the 37th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	36008-06-18 12:57	G	14872880.79	14872881.04	14872881.31	0.0516	0.0213	
Saturn	36031-09-19 03:07	G	14881373.50	14881373.63	14881373.77	0.0272	0.0234	
Uranus	36034-08-13 06:29	G	14882432.64	14882432.77	14882432.93	0.0135	0.0121	
Neptune	36050-08-11 12:29	G	14888274.76	14888275.02	14888275.32	0.0088	0.0031	
Neptune	36052-07-05 11:17	G	14888968.71	14888968.97	14888969.26	0.0088	0.0035	
Saturn	36061-11-04 04:33	G	14892377.56	14892377.69	14892377.82	0.0269	0.0238	
Uranus	36078-09-29 19:55	G	14898551.05	14898551.33	14898551.62	0.0144	0.0019	
Jupiter	36108-12-18 20:53	G	14909588.11	14909588.37	14909588.63	0.0511	0.0084	
Uranus	36119-04-09 19:26	G	14913351.98	14913352.31	14913352.65	0.0135	0.0011	
Saturn	36120-02-13 11:45	G	14913661.82	14913661.99	14913662.18	0.0272	0.0200	
Neptune	36132-07-08 05:31	G	14918190.60	14918190.73	14918190.93	0.0089	0.0077	
Neptune	36134-06-04 02:38	G	14918886.28	14918886.61	14918886.95	0.0089	0.0003	
Neptune	36136-04-29 19:55	G	14919582.16	14919582.33	14919582.54	0.0089	0.0073	
Uranus	36163-05-26 17:31	G	14929470.08	14929470.23	14929470.42	0.0144	0.0116	
Saturn	36208-07-09 11:02	G	14945949.76	14945949.96	14945950.18	0.0273	0.0172	
Neptune	36214-03-28 17:31	G	14948038.01	14948038.23	14948038.50	0.0088	0.0050	
Neptune	36216-02-20 16:05	G	14948731.88	14948732.17	14948732.47	0.0088	0.0015	
Neptune	36218-01-14 14:09	G	14949426.00	14949426.09	14949426.25	0.0088	0.0081	
Uranus	36246-02-18 16:48	G	14959688.00	14959688.20	14959688.39	0.0143	0.0104	
Jupiter	36263-03-16 12:57	G	14965922.83	14965923.04	14965923.25	0.0510	0.0313	

Jupiter	36281-03-05 21:36 G	14972487.11	14972487.40	14972487.68	0.0515	0.0037
Pluto	36283-06-27 12:00 G	14973330.79	14973331.00	14973331.26	0.0062	0.0037
Uranus	36286-08-27 02:38 G	14974487.34	14974487.61	14974487.91	0.0135	0.0071
Saturn	36296-12-02 06:14 G	14978237.54	14978237.76	14978237.98	0.0273	0.0161
Neptune	36298-01-16 17:17 G	14978647.91	14978648.22	14978648.55	0.0089	0.0025
Neptune	36299-12-13 12:29 G	14979343.76	14979344.02	14979344.31	0.0089	0.0049
Uranus	36330-10-15 15:07 G	14990606.86	14990607.13	14990607.41	0.0144	0.0033
Uranus	36371-04-24 00:43 G	15005407.26	15005407.53	15005407.84	0.0135	0.0069
Pluto	36374-08-30 07:12 G	15006631.48	15006631.80	15006632.13	0.0082	0.0028
Neptune	36377-11-11 22:19 G	15007801.28	15007801.43	15007801.65	0.0088	0.0070
Neptune	36379-10-06 18:29 G	15008494.98	15008495.27	15008495.57	0.0088	0.0005
Neptune	36381-08-30 16:33 G	15009189.00	15009189.19	15009189.43	0.0088	0.0060
Jupiter	36381-09-06 06:43 G	15009195.58	15009195.78	15009195.99	0.0511	0.0321
Saturn	36385-04-28 02:09 G	15010525.36	15010525.59	15010525.82	0.0274	0.0142
Saturn	36401-05-18 07:26 G	15016389.73	15016389.81	15016389.91	0.0288	0.0275
Jupiter	36435-06-01 18:00 G	15028822.09	15028822.25	15028822.42	0.0516	0.0420
Neptune	36461-08-31 04:48 G	15038409.45	15038409.70	15038410.00	0.0089	0.0050
Neptune	36463-07-28 02:09 G	15039105.29	15039105.59	15039105.93	0.0089	0.0026
Saturn	36473-09-21 12:00 G	15042813.75	15042814.00	15042814.25	0.0274	0.0109
Saturn	36489-10-11 15:07 G	15048677.94	15048678.13	15048678.33	0.0288	0.0223
Uranus	36498-03-04 05:45 G	15051743.49	15051743.74	15051744.01	0.0144	0.0060
Pluto	36529-11-20 02:09 G	15063326.31	15063326.59	15063326.88	0.0063	0.0013
Jupiter	36535-12-02 07:55 G	15065529.57	15065529.83	15065530.10	0.0511	0.0014
Uranus	36538-09-10 17:02 G	15066542.88	15066543.21	15066543.55	0.0135	0.0005
Neptune	36541-06-28 05:45 G	15067564.74	15067564.74	15067564.74	0.0088	0.0088
Neptune	36543-05-23 00:00 G	15068258.23	15068258.50	15068258.80	0.0088	0.0025
Neptune	36545-04-15 19:12 G	15068952.06	15068952.30	15068952.59	0.0088	0.0040
Jupiter	36553-11-19 14:24 G	15072091.97	15072092.10	15072092.26	0.0515	0.0446
Saturn	36562-02-16 06:43 G	15075102.51	15075102.78	15075103.04	0.0274	0.0060
Saturn	36578-03-09 10:33 G	15080967.66	15080967.94	15080968.24	0.0288	0.0126

Uranus	36582-10-29 00:43 G	15082662.30	15082662.53	15082662.79	0.0144	0.0074
Uranus	36623-05-08 10:33 G	15097462.93	15097462.94	15097463.02	0.0135	0.0134
Neptune	36625-04-15 11:17 G	15098170.82	15098170.97	15098171.16	0.0089	0.0077
Neptune	36627-03-12 12:00 G	15098866.67	15098867.00	15098867.34	0.0089	0.0001
Neptune	36629-02-05 08:24 G	15099562.71	15099562.85	15099563.05	0.0089	0.0076
Saturn	36650-07-14 20:53 G	15107392.10	15107392.37	15107392.64	0.0274	0.0018
Saturn	36666-08-05 20:53 G	15113258.05	15113258.37	15113258.69	0.0288	0.0002
Jupiter	36690-02-25 18:29 G	15121863.05	15121863.27	15121863.49	0.0510	0.0284
Uranus	36706-01-28 23:02 G	15127678.23	15127678.46	15127678.74	0.0135	0.0087
Neptune	36707-01-07 03:21 G	15128021.41	15128021.64	15128021.91	0.0088	0.0045
Jupiter	36708-02-14 16:05 G	15128424.90	15128425.17	15128425.45	0.0515	0.0157
Neptune	36708-11-30 23:02 G	15128715.18	15128715.46	15128715.76	0.0088	0.0019
Neptune	36710-10-25 18:14 G	15129409.20	15129409.26	15129409.37	0.0088	0.0084
Saturn	36738-12-10 10:48 G	15139681.70	15139681.95	15139682.21	0.0273	0.0098
Uranus	36750-03-19 21:07 G	15143799.10	15143799.38	15143799.66	0.0143	0.0013
Saturn	36755-01-02 08:24 G	15145548.56	15145548.85	15145549.13	0.0288	0.0122
Pluto	36776-04-14 12:00 G	15153321.89	15153322.00	15153322.13	0.0063	0.0057
Uranus	36790-09-24 21:36 G	15158598.10	15158598.40	15158598.71	0.0135	0.0055
Neptune	36790-10-24 17:45 G	15158627.93	15158628.24	15158628.57	0.0089	0.0026
Neptune	36792-09-19 18:00 G	15159323.99	15159324.25	15159324.53	0.0089	0.0051
Jupiter	36808-08-17 11:45 G	15165134.89	15165134.99	15165135.11	0.0512	0.0466
Saturn	36827-05-07 06:29 G	15171971.58	15171971.77	15171971.97	0.0273	0.0189
Uranus	36834-11-12 20:53 G	15174718.28	15174718.37	15174718.52	0.0144	0.0130
Saturn	36843-05-30 09:50 G	15177838.75	15177838.91	15177839.10	0.0289	0.0241
Jupiter	36844-05-21 18:29 G	15178196.27	15178196.27	15178196.29	0.0511	0.0510
Jupiter	36862-05-09 10:48 G	15184757.67	15184757.95	15184758.24	0.0515	0.0098
Neptune	36870-08-22 07:26 G	15187784.65	15187784.81	15187785.03	0.0088	0.0067
Neptune	36872-07-16 02:09 G	15188478.30	15188478.59	15188478.89	0.0088	0.0002
Neptune	36874-06-09 21:36 G	15189172.22	15189172.40	15189172.63	0.0088	0.0064
Saturn	36885-08-15 02:53 G	15193256.49	15193256.62	15193256.76	0.0276	0.0238

Saturn	36915-10-02 10:19 G	15204260.84	15204260.93	15204261.04	0.0272	0.0253
Uranus	36917-08-08 01:41 G	15204936.37	15204936.57	15204936.81	0.0143	0.0091
Neptune	36954-06-07 20:38 G	15218389.13	15218389.36	15218389.66	0.0089	0.0054
Neptune	36956-05-03 22:19 G	15219085.12	15219085.43	15219085.77	0.0089	0.0024
Uranus	36958-02-11 15:21 G	15219733.81	15219734.14	15219734.48	0.0135	0.0018
Jupiter	36962-11-11 20:38 G	15221468.12	15221468.36	15221468.60	0.0512	0.0209
Saturn	36974-01-10 00:29 G	15225545.33	15225545.52	15225545.73	0.0275	0.0183

38TH MILLENNIUM CE

This is a list of transits of Mars in the 38th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	37002-04-03 22:48 G		15235855.20	15235855.45	15235855.73	0.0143	0.0048	
Neptune	37034-04-08 13:55 G		15247548.06	15247548.08	15247548.12	0.0088	0.0088	
Neptune	37036-03-02 06:00 G		15248241.48	15248241.75	15248242.05	0.0088	0.0024	
Neptune	37038-01-24 23:31 G		15248935.24	15248935.48	15248935.76	0.0088	0.0042	
Uranus	37042-10-09 17:02 G		15250654.15	15250654.21	15250654.33	0.0135	0.0130	
Saturn	37062-06-06 11:31 G		15257833.75	15257833.98	15257834.22	0.0276	0.0137	
Jupiter	37117-02-07 06:29 G		15277802.52	15277802.77	15277803.02	0.0511	0.0159	
Neptune	37118-01-20 22:33 G		15278150.35	15278150.44	15278150.62	0.0089	0.0082	
Neptune	37119-12-18 03:07 G		15278846.30	15278846.63	15278846.97	0.0089	0.0004	
Neptune	37121-11-13 03:21 G		15279542.49	15279542.64	15279542.85	0.0089	0.0074	
Uranus	37125-07-02 05:31 G		15280869.50	15280869.73	15280869.98	0.0135	0.0094	
Jupiter	37135-01-24 17:31 G		15284362.99	15284363.23	15284363.50	0.0514	0.0244	

Saturn	37150-10-31 10:05 G	15290121.68	15290121.92	15290122.16	0.0276	0.0121
Uranus	37169-08-22 13:41 G	15296991.82	15296992.07	15296992.35	0.0143	0.0048
Neptune	37199-10-17 10:33 G	15308004.71	15308004.94	15308005.21	0.0088	0.0046
Neptune	37201-09-10 03:21 G	15308698.37	15308698.64	15308698.94	0.0088	0.0020
Neptune	37203-08-04 21:21 G	15309392.34	15309392.39	15309392.47	0.0088	0.0086
Uranus	37210-02-26 01:41 G	15311789.27	15311789.57	15311789.89	0.0135	0.0050
Jupiter	37235-07-31 08:24 G	15321075.75	15321075.85	15321075.96	0.0512	0.0462
Saturn	37239-03-26 02:53 G	15322409.38	15322409.62	15322409.88	0.0277	0.0108
Uranus	37254-04-17 12:00 G	15327910.80	15327911.00	15327911.23	0.0143	0.0091
Neptune	37283-07-31 05:45 G	15338607.44	15338607.74	15338608.07	0.0089	0.0031
Neptune	37285-06-26 08:53 G	15339303.61	15339303.87	15339304.18	0.0089	0.0047
Jupiter	37289-04-20 23:31 G	15340698.24	15340698.48	15340698.74	0.0514	0.0261
Saturn	37327-08-20 00:43 G	15354697.29	15354697.53	15354697.79	0.0277	0.0095
Uranus	37337-01-10 18:00 G	15358129.15	15358129.25	15358129.38	0.0143	0.0130
Neptune	37363-06-02 16:05 G	15367768.01	15367768.17	15367768.38	0.0088	0.0068
Neptune	37365-04-26 08:53 G	15368461.58	15368461.87	15368462.17	0.0088	0.0003
Neptune	37367-03-21 02:09 G	15369155.40	15369155.59	15369155.80	0.0088	0.0064
Uranus	37377-07-15 03:50 G	15372924.34	15372924.66	15372924.99	0.0136	0.0037
Jupiter	37389-10-25 19:55 G	15377410.08	15377410.33	15377410.59	0.0512	0.0081
Saturn	37416-01-14 04:33 G	15386985.44	15386985.69	15386985.96	0.0278	0.0070
Uranus	37421-09-06 18:43 G	15389048.01	15389048.28	15389048.57	0.0143	0.0014
Saturn	37432-01-26 00:57 G	15392841.44	15392841.54	15392841.67	0.0284	0.0265
Neptune	37447-03-15 09:50 G	15398368.67	15398368.91	15398369.18	0.0089	0.0058
Neptune	37449-02-08 13:55 G	15399064.76	15399065.08	15399065.42	0.0089	0.0020
Uranus	37462-03-12 06:14 G	15403844.59	15403844.76	15403844.96	0.0135	0.0112
Saturn	37504-06-10 05:31 G	15419274.46	15419274.73	15419275.00	0.0278	0.0015
Pluto	37513-08-04 18:14 G	15422617.10	15422617.26	15422617.47	0.0062	0.0049
Saturn	37520-06-22 15:50 G	15425130.91	15425131.16	15425131.42	0.0284	0.0168
Neptune	37528-12-11 13:55 G	15428224.81	15428225.08	15428225.37	0.0088	0.0025
Neptune	37530-11-05 06:00 G	15428918.50	15428918.75	15428919.02	0.0088	0.0041

Jupiter	37544-01-21 16:05 G	15433743.94	15433744.17	15433744.40	0.0511	0.0229
Uranus	37544-12-02 11:17 G	15434059.85	15434059.97	15434060.16	0.0136	0.0121
Jupiter	37562-01-04 13:55 G	15440301.83	15440302.08	15440302.35	0.0513	0.0234
Uranus	37589-01-25 22:48 G	15450185.22	15450185.45	15450185.71	0.0143	0.0070
Saturn	37592-11-04 13:41 G	15451563.81	15451564.07	15451564.34	0.0277	0.0057
Pluto	37604-10-01 20:38 G	15455913.08	15455913.36	15455913.67	0.0082	0.0041
Saturn	37608-11-18 02:09 G	15457421.27	15457421.59	15457421.90	0.0284	0.0052
Neptune	37610-10-27 13:26 G	15458130.01	15458130.06	15458130.18	0.0089	0.0086
Neptune	37612-09-22 20:53 G	15458826.04	15458826.37	15458826.71	0.0089	0.0006
Neptune	37614-08-19 23:45 G	15459522.33	15459522.49	15459522.72	0.0089	0.0073
Uranus	37629-07-29 15:50 G	15464979.84	15464980.16	15464980.50	0.0136	0.0031
Uranus	37673-09-20 15:07 G	15481103.89	15481104.13	15481104.40	0.0143	0.0066
Saturn	37681-04-01 13:26 G	15483853.85	15483854.06	15483854.30	0.0277	0.0155
Neptune	37692-07-26 22:19 G	15487988.21	15487988.43	15487988.71	0.0088	0.0047
Neptune	37694-06-20 13:55 G	15488681.80	15488682.08	15488682.37	0.0088	0.0020
Neptune	37696-05-14 05:45 G	15489375.68	15489375.74	15489375.81	0.0088	0.0086
Saturn	37697-04-15 16:19 G	15489711.88	15489712.18	15489712.49	0.0285	0.0081
Jupiter	37698-04-15 16:19 G	15490077.06	15490077.18	15490077.31	0.0512	0.0449
Jupiter	37716-03-30 02:09 G	15496634.30	15496634.59	15496634.88	0.0514	0.0001
Saturn	37739-07-12 13:41 G	15505139.05	15505139.07	15505139.10	0.0280	0.0278
Pluto	37759-12-27 15:36 G	15512611.95	15512612.15	15512612.42	0.0062	0.0038
Saturn	37769-08-28 05:31 G	15516143.61	15516143.73	15516143.88	0.0276	0.0239
Neptune	37776-05-07 02:09 G	15518587.29	15518587.59	15518587.93	0.0089	0.0033
Neptune	37778-04-03 08:24 G	15519283.58	15519283.85	15519284.15	0.0089	0.0047
Saturn	37785-09-11 11:31 G	15522001.74	15522001.98	15522002.24	0.0285	0.0180
Uranus	37796-12-15 09:36 G	15526114.62	15526114.90	15526115.21	0.0136	0.0065
Jupiter	37816-10-06 15:50 G	15533348.96	15533349.16	15533349.37	0.0513	0.0303
Saturn	37827-12-08 00:57 G	15537428.37	15537428.54	15537428.74	0.0279	0.0201
Uranus	37841-02-09 12:29 G	15542240.75	15542241.02	15542241.30	0.0142	0.0027
Pluto	37851-02-24 12:14 G	15545907.67	15545908.01	15545908.36	0.0082	0.0002

Neptune	37856-03-13 06:57 G	15547751.62	15547751.79	15547751.99	0.0088	0.0068
Neptune	37858-02-04 22:19 G	15548445.15	15548445.43	15548445.73	0.0088	0.0003
Neptune	37859-12-30 13:26 G	15549138.89	15549139.06	15549139.29	0.0088	0.0065
Jupiter	37870-06-24 22:33 G	15552968.24	15552968.44	15552968.64	0.0513	0.0368
Saturn	37874-02-06 10:48 G	15554290.83	15554290.95	15554291.09	0.0286	0.0260
Uranus	37881-08-12 02:24 G	15557034.33	15557034.60	15557034.89	0.0136	0.0078
Saturn	37916-05-04 00:43 G	15569717.29	15569717.53	15569717.76	0.0279	0.0134
Uranus	37925-10-06 08:53 G	15573159.72	15573159.87	15573160.05	0.0143	0.0116
Neptune	37939-12-21 09:36 G	15578348.68	15578348.90	15578349.19	0.0089	0.0059
Neptune	37941-11-16 17:17 G	15579044.91	15579045.22	15579045.57	0.0089	0.0022
Saturn	37962-07-02 23:17 G	15586578.44	15586578.47	15586578.52	0.0285	0.0283
Jupiter	37971-01-01 16:33 G	15589682.94	15589683.19	15589683.45	0.0513	0.0022
Jupiter	37988-12-13 00:29 G	15596238.42	15596238.52	15596238.65	0.0512	0.0467

39TH MILLENNIUM CE

This is a list of transits of Mars in the 39th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	38004-09-27 06:00 G	15602005.50	15602005.75	15602006.00	0.0279	0.0107		
Pluto	38006-05-21 11:31 G	15602606.76	15602606.98	15602607.25	0.0062	0.0034		
Uranus	38008-06-30 19:41 G	15603378.14	15603378.32	15603378.50	0.0142	0.0107		
Neptune	38021-09-21 07:26 G	15608208.55	15608208.81	15608209.11	0.0088	0.0024		
Neptune	38023-08-15 22:48 G	15608902.21	15608902.45	15608902.72	0.0088	0.0044		
Uranus	38048-12-28 20:38 G	15618169.03	15618169.36	15618169.70	0.0136	0.0019		

Saturn	38093-02-20 00:29 G	15634293.27	15634293.52	15634293.78	0.0280	0.0091
Uranus	38093-02-23 13:41 G	15634296.80	15634297.07	15634297.35	0.0142	0.0031
Pluto	38097-07-17 12:43 G	15635901.68	15635902.03	15635902.37	0.0082	0.0003
Neptune	38103-08-04 17:31 G	15638110.16	15638110.23	15638110.36	0.0089	0.0085
Neptune	38105-07-01 02:53 G	15638806.28	15638806.62	15638806.97	0.0089	0.0004
Neptune	38107-05-28 09:07 G	15639502.74	15639502.88	15639503.08	0.0089	0.0077
Jupiter	38125-03-29 12:14 G	15646017.88	15646018.01	15646018.15	0.0513	0.0437
Uranus	38133-08-25 21:21 G	15649089.32	15649089.39	15649089.47	0.0136	0.0132
Saturn	38139-04-19 12:57 G	15651151.99	15651152.04	15651152.10	0.0284	0.0280
Jupiter	38143-03-11 08:24 G	15652573.56	15652573.85	15652574.14	0.0513	0.0052
Saturn	38181-07-16 16:48 G	15666580.95	15666581.20	15666581.46	0.0280	0.0089
Neptune	38185-05-07 21:07 G	15667972.16	15667972.38	15667972.66	0.0088	0.0045
Neptune	38187-04-01 10:48 G	15668665.67	15668665.95	15668666.23	0.0088	0.0023
Uranus	38216-05-17 14:24 G	15679303.94	15679304.10	15679304.29	0.0136	0.0117
Jupiter	38243-09-20 15:36 G	15689290.91	15689291.15	15689291.39	0.0514	0.0196
Pluto	38252-10-12 23:45 G	15692601.30	15692601.49	15692601.70	0.0062	0.0045
Uranus	38260-07-15 05:02 G	15695433.47	15695433.71	15695433.96	0.0142	0.0069
Neptune	38269-02-12 12:43 G	15698567.72	15698568.03	15698568.37	0.0089	0.0029
Saturn	38269-12-10 10:19 G	15698868.68	15698868.93	15698869.19	0.0281	0.0080
Neptune	38271-01-09 20:53 G	15699264.12	15699264.37	15699264.67	0.0089	0.0053
Uranus	38301-01-12 09:07 G	15710223.56	15710223.88	15710224.22	0.0136	0.0031
Pluto	38343-12-10 03:36 G	15725895.34	15725895.65	15725895.98	0.0082	0.0028
Uranus	38345-03-10 17:02 G	15726351.97	15726352.21	15726352.48	0.0142	0.0063
Neptune	38348-12-23 10:19 G	15727735.75	15727735.93	15727736.14	0.0089	0.0065
Neptune	38350-11-17 00:14 G	15728429.22	15728429.51	15728429.80	0.0088	0.0002
Neptune	38352-10-10 12:58 G	15729122.89	15729123.04	15729123.25	0.0088	0.0070
Saturn	38358-05-06 20:24 G	15731157.08	15731157.35	15731157.61	0.0281	0.0049
Jupiter	38397-12-15 22:34 G	15745625.20	15745625.44	15745625.68	0.0512	0.0166
Jupiter	38415-11-24 19:12 G	15752178.09	15752178.30	15752178.53	0.0512	0.0339
Neptune	38432-09-26 23:02 G	15758329.21	15758329.46	15758329.76	0.0089	0.0053

Neptune	38434-08-24 08:24 G	15759025.55	15759025.85	15759026.20	0.0089	0.0029
Saturn	38446-09-30 15:07 G	15763445.86	15763446.13	15763446.40	0.0281	0.0003
Saturn	38462-10-05 06:00 G	15769294.53	15769294.75	15769294.98	0.0280	0.0201
Uranus	38468-05-29 06:29 G	15771357.52	15771357.77	15771358.05	0.0137	0.0086
Uranus	38512-07-29 14:24 G	15787488.83	15787489.10	15787489.38	0.0142	0.0031
Neptune	38512-08-09 02:38 G	15787499.54	15787499.61	15787499.69	0.0089	0.0085
Neptune	38514-07-03 15:07 G	15788192.85	15788193.13	15788193.41	0.0089	0.0018
Neptune	38516-05-27 04:34 G	15788886.47	15788886.69	15788886.95	0.0088	0.0050
Saturn	38535-02-26 06:43 G	15795735.53	15795735.78	15795736.04	0.0281	0.0085
Saturn	38551-03-03 16:19 G	15801584.88	15801585.18	15801585.50	0.0281	0.0077
Jupiter	38552-03-11 04:48 G	15801958.56	15801958.70	15801958.86	0.0513	0.0413
Uranus	38553-01-23 22:34 G	15802277.14	15802277.44	15802277.75	0.0136	0.0060
Jupiter	38570-02-17 09:36 G	15808510.61	15808510.90	15808511.19	0.0513	0.0085
Neptune	38596-05-11 09:50 G	15818090.77	15818090.91	15818091.10	0.0089	0.0078
Uranus	38597-03-24 06:29 G	15818407.60	15818407.77	15818407.96	0.0142	0.0109
Neptune	38598-04-07 20:53 G	15818787.03	15818787.37	15818787.72	0.0089	0.0005
Neptune	38600-03-05 05:17 G	15819483.66	15819483.72	15819483.82	0.0089	0.0086
Saturn	38623-07-25 00:58 G	15828025.33	15828025.54	15828025.75	0.0280	0.0173
Saturn	38639-07-31 00:58 G	15833875.22	15833875.54	15833875.86	0.0281	0.0040
Jupiter	38670-09-01 04:19 G	15845230.50	15845230.68	15845230.86	0.0514	0.0359
Neptune	38678-02-17 07:12 G	15847956.57	15847956.80	15847957.08	0.0089	0.0039
Uranus	38679-12-18 12:14 G	15848625.90	15848626.01	15848626.17	0.0142	0.0125
Neptune	38680-01-11 19:12 G	15848650.04	15848650.30	15848650.59	0.0088	0.0030
Saturn	38681-11-01 20:10 G	15849310.29	15849310.34	15849310.40	0.0283	0.0276
Saturn	38711-12-20 22:05 G	15860315.39	15860315.42	15860315.48	0.0280	0.0275
Uranus	38720-06-12 08:10 G	15863411.54	15863411.84	15863412.18	0.0136	0.0048
Jupiter	38724-05-14 14:38 G	15864843.85	15864844.11	15864844.38	0.0512	0.0229
Saturn	38727-12-26 20:38 G	15866165.09	15866165.36	15866165.64	0.0282	0.0148
Neptune	38761-11-21 08:38 G	15878548.53	15878548.86	15878549.20	0.0089	0.0020
Neptune	38763-10-18 19:26 G	15879245.08	15879245.31	15879245.56	0.0089	0.0063

Uranus	38764-08-12 23:02 G	15879544.19	15879544.46	15879544.75	0.0142	0.0008
Saturn	38770-03-30 11:31 G	15881599.78	15881599.98	15881600.19	0.0283	0.0182
Uranus	38805-02-06 04:05 G	15894331.48	15894331.67	15894331.92	0.0136	0.0104
Saturn	38816-05-21 10:48 G	15898453.75	15898453.95	15898454.18	0.0282	0.0209
Jupiter	38824-11-25 16:48 G	15901563.95	15901564.20	15901564.45	0.0514	0.0091
Neptune	38841-10-04 00:29 G	15907720.32	15907720.52	15907720.75	0.0089	0.0058
Neptune	38843-08-28 13:26 G	15908413.78	15908414.06	15908414.35	0.0089	0.0010
Neptune	38845-07-22 01:26 G	15909107.45	15909107.56	15909107.72	0.0088	0.0078
Uranus	38849-04-07 07:41 G	15910462.78	15910462.82	15910462.90	0.0142	0.0138
Saturn	38858-08-24 09:50 G	15913888.67	15913888.91	15913889.15	0.0283	0.0126
Saturn	38904-10-15 07:12 G	15930741.66	15930741.80	15930741.98	0.0281	0.0246
Neptune	38925-07-05 18:58 G	15938310.01	15938310.29	15938310.61	0.0089	0.0045
Neptune	38927-06-02 06:58 G	15939006.50	15939006.79	15939007.12	0.0089	0.0039
Uranus	38932-01-01 09:07 G	15940680.70	15940680.88	15940681.09	0.0142	0.0102
Saturn	38947-01-18 15:50 G	15946176.92	15946177.16	15946177.42	0.0283	0.0092
Uranus	38972-06-24 00:29 G	15955465.19	15955465.52	15955465.87	0.0137	0.0016
Jupiter	38979-02-21 04:34 G	15957898.48	15957898.69	15957898.90	0.0514	0.0289
Saturn	38993-03-09 04:19 G	15963028.53	15963028.68	15963028.83	0.0281	0.0246
Pluto	38993-11-09 22:34 G	15963274.36	15963274.44	15963274.61	0.0063	0.0057
Jupiter	38997-01-26 18:29 G	15964448.00	15964448.27	15964448.54	0.0511	0.0203

40TH MILLENNIUM CE

This is a list of transits of Mars in the 40th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Neptune	39005-05-21 19:26 G	15967484.19	15967484.31	15967484.45	0.0089	0.0078
Neptune	39007-04-15 06:58 G	15968177.51	15968177.79	15968178.08	0.0089	0.0010
Neptune	39009-03-08 19:41 G	15968871.12	15968871.32	15968871.55	0.0089	0.0058
Uranus	39016-08-26 21:07 G	15971599.11	15971599.38	15971599.65	0.0142	0.0034
Saturn	39035-06-14 10:19 G	15978464.67	15978464.93	15978465.18	0.0284	0.0086
Uranus	39057-02-18 14:38 G	15986385.02	15986385.11	15986385.21	0.0136	0.0131
Saturn	39081-08-02 03:50 G	15995315.52	15995315.66	15995315.82	0.0280	0.0246
Neptune	39089-02-17 06:29 G	15998071.58	15998071.77	15998072.01	0.0089	0.0070
Neptune	39091-01-14 19:12 G	15998767.97	15998768.30	15998768.66	0.0089	0.0015
Jupiter	39097-08-14 13:41 G	16001171.88	16001172.07	16001172.26	0.0515	0.0336
Saturn	39123-11-07 20:10 G	16010752.09	16010752.34	16010752.60	0.0285	0.0091
Uranus	39139-11-10 22:48 G	16016599.41	16016599.45	16016599.55	0.0137	0.0134
Jupiter	39151-04-26 07:26 G	16020783.60	16020783.81	16020784.02	0.0512	0.0359
Saturn	39169-12-26 05:02 G	16027602.57	16027602.71	16027602.85	0.0280	0.0252
Neptune	39170-11-30 01:26 G	16027941.31	16027941.56	16027941.85	0.0089	0.0031
Neptune	39172-10-23 12:14 G	16028634.78	16028635.01	16028635.30	0.0089	0.0039
Uranus	39184-01-15 19:41 G	16032736.07	16032736.32	16032736.58	0.0142	0.0061
Saturn	39212-04-01 14:53 G	16043039.87	16043040.12	16043040.38	0.0285	0.0085
Uranus	39224-07-06 21:36 G	16047519.06	16047519.40	16047519.74	0.0136	0.0021
Pluto	39240-04-02 18:29 G	16053267.98	16053268.27	16053268.57	0.0062	0.0001
Jupiter	39251-11-10 06:14 G	16057506.51	16057506.76	16057507.01	0.0513	0.0073
Neptune	39254-08-29 06:43 G	16058529.44	16058529.78	16058530.12	0.0089	0.0011
Neptune	39256-07-25 18:14 G	16059226.10	16059226.26	16059226.49	0.0089	0.0074
Uranus	39268-09-09 07:41 G	16063654.60	16063654.82	16063655.08	0.0142	0.0076
Jupiter	39269-10-12 22:48 G	16064053.44	16064053.45	16064053.49	0.0511	0.0509
Saturn	39300-08-26 17:17 G	16075327.97	16075328.22	16075328.49	0.0285	0.0066
Neptune	39334-07-16 21:22 G	16087705.17	16087705.39	16087705.64	0.0089	0.0051
Neptune	39336-06-09 09:07 G	16088398.60	16088398.88	16088399.16	0.0089	0.0018
Neptune	39338-05-03 19:55 G	16089092.29	16089092.33	16089092.39	0.0089	0.0087

Saturn	39389-01-20 19:26 G	16107617.04	16107617.31	16107617.57	0.0285	0.0004
Uranus	39391-11-23 06:29 G	16108653.52	16108653.77	16108654.04	0.0137	0.0088
Saturn	39405-01-19 03:07 G	16113458.43	16113458.63	16113458.84	0.0276	0.0211
Jupiter	39406-02-05 00:43 G	16113840.37	16113840.53	16113840.71	0.0514	0.0376
Neptune	39418-04-13 16:48 G	16118290.91	16118291.20	16118291.54	0.0089	0.0037
Neptune	39420-03-10 05:46 G	16118987.48	16118987.74	16118988.06	0.0089	0.0049
Jupiter	39424-01-08 02:53 G	16120386.35	16120386.62	16120386.90	0.0512	0.0190
Uranus	39436-01-29 18:29 G	16124791.00	16124791.27	16124791.54	0.0142	0.0037
Uranus	39476-07-19 22:48 G	16139573.16	16139573.45	16139573.77	0.0136	0.0063
Saturn	39477-06-18 08:24 G	16139906.60	16139906.85	16139907.11	0.0285	0.0077
Pluto	39486-08-25 08:10 G	16143261.78	16143261.84	16143261.94	0.0062	0.0060
Saturn	39493-06-16 12:43 G	16145748.73	16145749.03	16145749.34	0.0277	0.0097
Neptune	39498-03-02 15:36 G	16147468.99	16147469.15	16147469.32	0.0089	0.0072
Neptune	39500-01-25 02:53 G	16148162.34	16148162.62	16148162.91	0.0089	0.0003
Neptune	39501-12-19 13:55 G	16148855.93	16148856.08	16148856.31	0.0089	0.0067
Uranus	39520-09-24 02:24 G	16155709.41	16155709.60	16155709.82	0.0142	0.0097
Jupiter	39524-07-28 06:14 G	16157112.60	16157112.76	16157112.93	0.0515	0.0389
Saturn	39565-11-14 08:53 G	16172196.67	16172196.87	16172197.08	0.0284	0.0185
Pluto	39577-10-17 18:00 G	16176552.17	16176552.25	16176552.36	0.0082	0.0078
Jupiter	39578-04-03 03:36 G	16176719.36	16176719.65	16176719.94	0.0511	0.0110
Saturn	39581-11-12 22:48 G	16178039.13	16178039.45	16178039.77	0.0277	0.0027
Neptune	39581-11-26 02:24 G	16178052.39	16178052.60	16178052.88	0.0089	0.0063
Neptune	39583-10-23 16:34 G	16178748.87	16178749.19	16178749.54	0.0089	0.0023
Uranus	39603-06-19 10:48 G	16185927.95	16185927.95	16185927.95	0.0141	0.0141
Saturn	39624-02-22 21:50 G	16193481.39	16193481.41	16193481.46	0.0287	0.0284
Uranus	39643-12-05 20:10 G	16200707.04	16200707.34	16200707.65	0.0137	0.0059
Saturn	39654-04-11 05:02 G	16204486.66	16204486.71	16204486.77	0.0283	0.0276
Neptune	39663-09-10 21:36 G	16207926.13	16207926.40	16207926.68	0.0089	0.0024
Neptune	39665-08-04 08:24 G	16208619.62	16208619.85	16208620.11	0.0089	0.0046
Saturn	39670-04-09 13:41 G	16210328.79	16210329.07	16210329.37	0.0278	0.0122

Jupiter	39678-10-21 10:48 G	16213445.72	16213445.95	16213446.20	0.0515	0.0160
Uranus	39688-02-12 00:14 G	16216846.23	16216846.51	16216846.79	0.0142	0.0003
Saturn	39712-07-20 11:31 G	16225770.80	16225770.98	16225771.17	0.0287	0.0202
Uranus	39728-08-01 18:14 G	16231627.03	16231627.26	16231627.51	0.0136	0.0097
Jupiter	39732-06-27 08:53 G	16233052.71	16233052.87	16233053.04	0.0511	0.0426
Pluto	39734-12-07 04:19 G	16233945.54	16233945.68	16233945.86	0.0063	0.0053
Neptune	39747-06-07 01:55 G	16238510.24	16238510.58	16238510.93	0.0089	0.0003
Neptune	39749-05-03 14:38 G	16239207.02	16239207.11	16239207.27	0.0089	0.0083
Saturn	39758-09-04 08:10 G	16242617.62	16242617.84	16242618.09	0.0278	0.0190
Uranus	39772-10-07 14:24 G	16247765.06	16247765.10	16247765.16	0.0142	0.0139
Saturn	39800-12-15 08:24 G	16258059.62	16258059.85	16258060.09	0.0287	0.0141
Neptune	39827-04-28 16:19 G	16267689.95	16267690.18	16267690.44	0.0089	0.0046
Neptune	39829-03-22 02:53 G	16268383.35	16268383.62	16268383.90	0.0089	0.0024
Jupiter	39833-01-16 11:46 G	16269779.75	16269779.99	16269780.23	0.0515	0.0165
Saturn	39847-01-28 21:36 G	16274905.21	16274905.40	16274905.62	0.0277	0.0215
Jupiter	39850-12-15 19:26 G	16276322.20	16276322.31	16276322.43	0.0510	0.0470
Uranus	39855-07-03 21:07 G	16277983.21	16277983.38	16277983.59	0.0141	0.0103
Saturn	39889-05-10 13:12 G	16290347.81	16290348.05	16290348.30	0.0287	0.0117
Uranus	39895-12-19 09:50 G	16292761.57	16292761.91	16292762.25	0.0137	0.0008
Neptune	39911-01-20 08:38 G	16298271.56	16298271.86	16298272.21	0.0089	0.0031
Neptune	39912-12-16 23:46 G	16298968.23	16298968.49	16298968.76	0.0089	0.0056
Saturn	39935-06-24 02:10 G	16307192.42	16307192.59	16307192.80	0.0277	0.0223
Uranus	39940-02-27 05:46 G	16308901.48	16308901.74	16308902.02	0.0142	0.0032
Jupiter	39951-07-10 20:24 G	16313053.26	16313053.35	16313053.44	0.0516	0.0479
Saturn	39977-10-04 03:22 G	16322635.41	16322635.64	16322635.89	0.0288	0.0115
Pluto	39981-04-29 08:53 G	16323938.66	16323938.87	16323939.15	0.0062	0.0035
Neptune	39990-12-13 09:07 G	16327453.72	16327453.88	16327454.08	0.0089	0.0068
Neptune	39992-11-05 20:10 G	16328147.06	16328147.34	16328147.63	0.0089	0.0003
Neptune	39994-09-30 06:58 G	16328840.63	16328840.79	16328840.96	0.0089	0.0072

41ST MILLENNIUM CE

This is a list of transits of Mars in the 41st millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT							
	TIME							
Jupiter	40005-03-13 08:24	G	16332657.55	16332657.85	16332658.14	0.0511	0.0097	
Saturn	40023-11-15 22:34	G	16339479.26	16339479.44	16339479.65	0.0276	0.0222	
Uranus	40063-05-06 17:02	G	16353896.06	16353896.21	16353896.38	0.0137	0.0120	
Saturn	40066-02-26 16:19	G	16354922.94	16354923.18	16354923.42	0.0289	0.0120	
Pluto	40072-06-20 06:43	G	16357228.44	16357228.78	16357229.12	0.0082	0.0003	
Neptune	40074-09-02 13:55	G	16358032.82	16358033.08	16358033.34	0.0089	0.0059	
Neptune	40076-07-30 04:34	G	16358729.37	16358729.69	16358730.02	0.0089	0.0028	
Jupiter	40105-10-05 17:17	G	16369387.97	16369388.22	16369388.47	0.0514	0.0045	
Uranus	40107-07-17 18:29	G	16370038.05	16370038.27	16370038.51	0.0141	0.0078	
Saturn	40112-04-10 11:17	G	16371766.81	16371766.97	16371767.15	0.0275	0.0234	
Uranus	40148-01-01 12:58	G	16384815.72	16384816.04	16384816.38	0.0137	0.0036	
Saturn	40154-07-23 06:14	G	16387210.52	16387210.76	16387211.00	0.0289	0.0123	
Neptune	40156-06-22 12:58	G	16387910.77	16387911.04	16387911.33	0.0089	0.0021	
Neptune	40158-05-16 23:46	G	16388604.25	16388604.49	16388604.72	0.0089	0.0050	
Uranus	40192-03-11 08:10	G	16400956.60	16400956.84	16400957.10	0.0142	0.0065	
Pluto	40229-08-10 16:05	G	16414622.03	16414622.17	16414622.37	0.0063	0.0051	
Neptune	40238-04-17 16:48	G	16417794.20	16417794.20	16417794.24	0.0089	0.0089	
Neptune	40240-03-14 08:24	G	16418490.51	16418490.85	16418491.20	0.0089	0.0001	
Neptune	40242-02-08 22:34	G	16419187.40	16419187.44	16419187.53	0.0089	0.0087	
Saturn	40242-12-17 12:58	G	16419498.79	16419499.04	16419499.30	0.0290	0.0093	

Jupiter	40259-12-31 23:46 G	16425722.29	16425722.49	16425722.69	0.0514	0.0316
Jupiter	40277-11-26 01:26 G	16432261.35	16432261.56	16432261.79	0.0511	0.0348
Uranus	40315-05-21 01:41 G	16445950.31	16445950.57	16445950.89	0.0137	0.0073
Neptune	40320-02-08 05:17 G	16447674.48	16447674.72	16447674.98	0.0089	0.0044
Neptune	40322-01-01 14:53 G	16448367.85	16448368.12	16448368.40	0.0089	0.0027
Saturn	40331-05-14 10:48 G	16451787.69	16451787.95	16451788.22	0.0289	0.0039
Saturn	40347-05-05 23:31 G	16457623.28	16457623.48	16457623.72	0.0272	0.0199
Uranus	40359-08-01 10:48 G	16462093.68	16462093.95	16462094.22	0.0141	0.0031
Jupiter	40378-06-23 14:10 G	16468994.95	16468995.09	16468995.24	0.0516	0.0418
Uranus	40400-01-15 08:24 G	16476870.61	16476870.85	16476871.10	0.0137	0.0095
Neptune	40403-10-27 07:55 G	16478251.54	16478251.83	16478252.19	0.0089	0.0032
Neptune	40405-09-23 00:14 G	16478948.24	16478948.51	16478948.77	0.0089	0.0057
Saturn	40419-10-09 03:50 G	16484077.40	16484077.66	16484077.92	0.0289	0.0059
Jupiter	40432-02-20 07:26 G	16488594.51	16488594.81	16488595.12	0.0510	0.0017
Saturn	40435-10-01 05:02 G	16489913.41	16489913.71	16489914.03	0.0273	0.0084
Uranus	40444-03-25 23:02 G	16493012.31	16493012.46	16493012.66	0.0142	0.0110
Neptune	40483-09-23 19:26 G	16507438.13	16507438.31	16507438.49	0.0089	0.0068
Neptune	40485-08-17 06:29 G	16508131.49	16508131.77	16508132.06	0.0089	0.0003
Neptune	40487-07-11 16:05 G	16508825.05	16508825.17	16508825.36	0.0089	0.0075
Saturn	40508-03-06 05:17 G	16516367.51	16516367.72	16516367.95	0.0288	0.0162
Saturn	40524-02-27 09:07 G	16522203.56	16522203.88	16522204.21	0.0274	0.0028
Uranus	40526-12-20 06:14 G	16523230.69	16523230.76	16523230.85	0.0141	0.0136
Jupiter	40532-09-16 16:48 G	16525327.97	16525328.20	16525328.43	0.0515	0.0196
Pluto	40567-02-20 07:55 G	16537902.82	16537902.83	16537902.93	0.0082	0.0081
Uranus	40567-06-03 06:43 G	16538005.44	16538005.78	16538006.12	0.0137	0.0004
Neptune	40567-06-10 07:26 G	16538012.58	16538012.81	16538013.08	0.0089	0.0062
Neptune	40569-05-06 22:19 G	16538709.12	16538709.43	16538709.78	0.0089	0.0027
Jupiter	40586-05-15 22:05 G	16544927.15	16544927.42	16544927.68	0.0511	0.0244
Saturn	40596-08-01 03:50 G	16548657.58	16548657.66	16548657.75	0.0288	0.0270
Uranus	40611-08-15 15:07 G	16554148.85	16554149.13	16554149.41	0.0141	0.0002

Saturn	40612-07-25 01:26 G	16554493.27	16554493.56	16554493.85	0.0274	0.0124
Neptune	40649-04-03 19:12 G	16567895.03	16567895.30	16567895.59	0.0089	0.0022
Neptune	40651-02-26 06:00 G	16568588.52	16568588.75	16568588.99	0.0089	0.0050
Saturn	40654-11-10 00:29 G	16569941.37	16569941.52	16569941.68	0.0291	0.0236
Jupiter	40686-12-12 05:17 G	16581661.47	16581661.72	16581661.97	0.0516	0.0072
Saturn	40700-12-19 16:19 G	16586781.94	16586782.18	16586782.42	0.0274	0.0184
Pluto	40724-04-13 03:50 G	16595297.37	16595297.66	16595297.96	0.0062	0.0004
Neptune	40732-12-19 19:55 G	16598469.99	16598470.33	16598470.68	0.0089	0.0005
Uranus	40734-10-20 17:02 G	16599140.05	16599140.21	16599140.41	0.0137	0.0117
Neptune	40734-11-16 09:50 G	16599166.84	16599166.91	16599167.07	0.0089	0.0084
Saturn	40743-04-06 21:07 G	16602230.18	16602230.38	16602230.59	0.0291	0.0184
Uranus	40779-01-03 18:00 G	16615286.04	16615286.25	16615286.46	0.0141	0.0092
Saturn	40789-05-14 12:14 G	16619069.83	16619070.01	16619070.23	0.0273	0.0215
Neptune	40812-11-18 08:53 G	16627658.65	16627658.87	16627659.13	0.0089	0.0048
Neptune	40814-10-12 18:14 G	16628351.99	16628352.26	16628352.54	0.0089	0.0025
Pluto	40815-06-04 05:17 G	16628586.70	16628586.72	16628586.81	0.0081	0.0081
Uranus	40819-06-16 23:31 G	16630060.18	16630060.48	16630060.81	0.0137	0.0053
Saturn	40831-08-30 21:22 G	16634518.17	16634518.39	16634518.61	0.0292	0.0164
Jupiter	40841-03-08 12:00 G	16637995.87	16637996.00	16637996.14	0.0514	0.0430
Jupiter	40859-01-28 16:48 G	16644530.92	16644531.20	16644531.48	0.0510	0.0202
Uranus	40863-08-29 13:41 G	16646204.83	16646205.07	16646205.34	0.0141	0.0060
Saturn	40877-10-06 13:26 G	16651356.89	16651357.06	16651357.27	0.0273	0.0221
Neptune	40896-08-01 14:10 G	16658230.79	16658231.09	16658231.42	0.0089	0.0039
Neptune	40898-06-29 05:46 G	16658927.47	16658927.74	16658928.03	0.0089	0.0051
Saturn	40920-01-24 09:50 G	16666805.70	16666805.91	16666806.13	0.0292	0.0169
Jupiter	40959-08-31 04:48 G	16681269.47	16681269.70	16681269.94	0.0515	0.0180
Saturn	40966-03-01 16:19 G	16683644.00	16683644.18	16683644.38	0.0272	0.0220
Pluto	40972-07-23 20:53 G	16685980.22	16685980.37	16685980.60	0.0063	0.0049
Neptune	40976-07-04 19:55 G	16687422.20	16687422.33	16687422.52	0.0089	0.0074
Neptune	40978-05-29 07:55 G	16688115.54	16688115.83	16688116.11	0.0089	0.0002

Neptune	40980-04-21 17:02 G	16688809.05	16688809.21	16688809.39	0.0089	0.0071
Uranus	40986-11-03 07:12 G	16691195.48	16691195.80	16691196.14	0.0137	0.0040

42ND MILLENNIUM CE

This is a list of transits of Mars in the 42nd millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Saturn	41008-06-18 16:34 G	16699093.00	16699093.19	16699093.41	0.0293	0.0186			
Jupiter	41013-04-26 22:19 G	16700866.21	16700866.43	16700866.66	0.0511	0.0346			
Uranus	41031-01-18 21:36 G	16707342.13	16707342.40	16707342.68	0.0141	0.0032			
Saturn	41054-07-25 23:46 G	16715931.33	16715931.49	16715931.66	0.0272	0.0234			
Neptune	41060-03-16 08:38 G	16717991.67	16717991.86	16717992.06	0.0089	0.0073			
Neptune	41062-02-10 23:46 G	16718688.15	16718688.49	16718688.84	0.0089	0.0017			
Saturn	41096-11-11 07:41 G	16731380.62	16731380.82	16731381.04	0.0293	0.0183			
Jupiter	41113-11-26 20:53 G	16737604.15	16737604.37	16737604.60	0.0515	0.0231			
Uranus	41115-09-14 08:24 G	16738260.70	16738260.85	16738261.05	0.0141	0.0112			
Neptune	41142-01-13 17:31 G	16747878.97	16747879.23	16747879.51	0.0089	0.0028			
Neptune	41143-12-08 04:19 G	16748572.45	16748572.68	16748572.94	0.0089	0.0045			
Uranus	41154-03-23 11:02 G	16752330.93	16752330.96	16752331.04	0.0138	0.0136			
Saturn	41185-04-07 12:14 G	16763668.79	16763669.01	16763669.23	0.0293	0.0160			
Uranus	41198-06-08 21:50 G	16768479.33	16768479.41	16768479.53	0.0141	0.0131			
Saturn	41201-03-24 13:12 G	16769499.00	16769499.05	16769499.14	0.0269	0.0263			
Neptune	41225-09-24 16:05 G	16778448.85	16778449.17	16778449.53	0.0089	0.0019			
Neptune	41227-08-22 06:58 G	16779145.63	16779145.79	16779146.02	0.0089	0.0073			

Jupiter	41232-05-18 23:02 G	16780877.35	16780877.46	16780877.57	0.0516	0.0459
Uranus	41238-11-17 15:50 G	16783250.84	16783251.16	16783251.50	0.0137	0.0035
Saturn	41273-09-01 12:58 G	16795957.79	16795958.04	16795958.30	0.0293	0.0090
Uranus	41283-02-01 12:43 G	16799397.75	16799398.03	16799398.31	0.0141	0.0017
Jupiter	41286-01-08 01:41 G	16800469.29	16800469.57	16800469.87	0.0510	0.0160
Saturn	41289-08-19 05:02 G	16801788.47	16801788.71	16801788.98	0.0269	0.0170
Neptune	41305-08-30 04:19 G	16807642.47	16807642.68	16807642.91	0.0089	0.0056
Neptune	41307-07-24 14:38 G	16808335.84	16808336.11	16808336.41	0.0089	0.0018
Saturn	41362-01-28 07:26 G	16828247.54	16828247.81	16828248.08	0.0292	0.0002
Saturn	41378-01-15 09:36 G	16834078.58	16834078.90	16834079.21	0.0270	0.0062
Jupiter	41386-08-13 08:53 G	16837210.64	16837210.87	16837211.10	0.0516	0.0204
Neptune	41389-05-08 10:05 G	16838209.67	16838209.92	16838210.23	0.0088	0.0054
Neptune	41391-04-05 01:12 G	16838906.24	16838906.55	16838906.87	0.0089	0.0038
Uranus	41406-04-06 10:05 G	16844385.65	16844385.92	16844386.23	0.0138	0.0073
Jupiter	41440-04-03 13:12 G	16856801.76	16856802.05	16856802.35	0.0510	0.0090
Uranus	41450-06-24 02:38 G	16860535.38	16860535.61	16860535.87	0.0141	0.0066
Saturn	41450-06-26 09:36 G	16860537.66	16860537.90	16860538.15	0.0292	0.0118
Saturn	41466-06-13 12:14 G	16866368.69	16866369.01	16866369.33	0.0270	0.0048
Neptune	41469-04-15 13:55 G	16867406.01	16867406.08	16867406.17	0.0089	0.0085
Neptune	41471-03-10 01:12 G	16868099.27	16868099.55	16868099.84	0.0089	0.0011
Neptune	41473-01-31 11:02 G	16868792.77	16868792.96	16868793.16	0.0089	0.0063
Uranus	41490-12-01 21:07 G	16875306.17	16875306.38	16875306.60	0.0138	0.0106
Uranus	41535-02-17 22:34 G	16891454.23	16891454.44	16891454.67	0.0141	0.0086
Saturn	41538-11-22 08:38 G	16892827.70	16892827.86	16892828.05	0.0291	0.0218
Jupiter	41540-11-07 13:26 G	16893543.81	16893544.06	16893544.32	0.0516	0.0028
Neptune	41552-12-21 05:17 G	16897970.72	16897970.72	16897970.77	0.0088	0.0088
Saturn	41554-11-08 23:31 G	16898658.21	16898658.48	16898658.78	0.0271	0.0136
Neptune	41554-11-17 19:41 G	16898666.97	16898667.32	16898667.67	0.0088	0.0003
Jupiter	41594-06-29 00:00 G	16913135.36	16913135.50	16913135.65	0.0510	0.0443
Neptune	41634-10-24 09:50 G	16927862.67	16927862.91	16927863.18	0.0089	0.0040

Neptune	41636-09-16 21:36 G	16928556.15	16928556.40	16928556.67	0.0089	0.0035
Saturn	41643-04-04 16:48 G	16930946.99	16930947.20	16930947.44	0.0270	0.0194
Uranus	41658-04-20 01:41 G	16936441.24	16936441.57	16936441.92	0.0138	0.0009
Saturn	41685-07-25 16:34 G	16946400.08	16946400.19	16946400.33	0.0295	0.0257
Jupiter	41695-02-01 08:38 G	16949877.67	16949877.86	16949878.05	0.0515	0.0325
Uranus	41702-07-09 02:24 G	16952591.32	16952591.60	16952591.88	0.0140	0.0010
Jupiter	41712-12-15 23:02 G	16956404.43	16956404.46	16956404.53	0.0509	0.0501
Pluto	41715-07-06 09:07 G	16957336.73	16957336.88	16957337.08	0.0062	0.0051
Neptune	41718-07-01 16:05 G	16958427.86	16958428.17	16958428.51	0.0088	0.0032
Neptune	41720-05-28 05:31 G	16959124.50	16959124.73	16959125.01	0.0089	0.0060
Saturn	41731-08-29 13:41 G	16963234.90	16963235.07	16963235.25	0.0270	0.0226
Saturn	41773-12-19 17:17 G	16978688.08	16978688.22	16978688.39	0.0295	0.0240
Uranus	41787-03-03 14:38 G	16983510.08	16983510.11	16983510.19	0.0141	0.0138
Neptune	41798-06-09 19:26 G	16987626.16	16987626.31	16987626.52	0.0089	0.0069
Neptune	41800-05-04 06:58 G	16988319.51	16988319.79	16988320.08	0.0089	0.0007
Neptune	41802-03-28 18:00 G	16989013.17	16989013.25	16989013.39	0.0089	0.0082
Pluto	41806-08-24 15:50 G	16990622.86	16990623.16	16990623.50	0.0081	0.0025
Jupiter	41813-07-26 21:36 G	16993151.21	16993151.40	16993151.60	0.0516	0.0315
Saturn	41820-01-23 00:58 G	16995522.40	16995522.54	16995522.70	0.0269	0.0236
Uranus	41825-09-06 09:07 G	16997575.70	16997575.88	16997576.11	0.0138	0.0112
Saturn	41862-05-15 03:22 G	17010975.51	17010975.64	17010975.79	0.0296	0.0251
Jupiter	41867-03-14 00:43 G	17012739.23	17012739.53	17012739.83	0.0510	0.0031
Uranus	41869-11-27 07:26 G	17013728.63	17013728.81	17013729.01	0.0140	0.0102
Neptune	41882-02-12 15:22 G	17018188.94	17018189.14	17018189.41	0.0088	0.0066
Neptune	41884-01-10 04:48 G	17018885.38	17018885.70	17018886.05	0.0088	0.0027
Saturn	41908-06-17 06:00 G	17027809.62	17027809.75	17027809.87	0.0269	0.0246
Uranus	41910-05-04 11:46 G	17028495.71	17028495.99	17028496.32	0.0138	0.0061
Saturn	41950-10-08 08:38 G	17043262.75	17043262.86	17043262.98	0.0297	0.0265
Uranus	41954-07-24 01:55 G	17044647.33	17044647.58	17044647.86	0.0140	0.0050
Pluto	41963-10-16 09:50 G	17048018.70	17048018.91	17048019.16	0.0062	0.0040

Neptune	41963-12-19 17:46 G	17048082.97	17048083.24	17048083.53	0.0089	0.0022
Neptune	41965-11-12 03:50 G	17048776.46	17048776.66	17048776.91	0.0089	0.0054
Jupiter	41967-10-22 17:02 G	17049485.96	17049486.21	17049486.45	0.0516	0.0118
Saturn	41996-11-09 21:07 G	17060097.34	17060097.38	17060097.46	0.0268	0.0263

43RD MILLENNIUM CE

This is a list of transits of Mars in the 43rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	42039-03-02 20:10 G		17075550.24	17075550.34	17075550.45	0.0297	0.0272	
Neptune	42047-08-24 05:02 G		17078646.38	17078646.71	17078647.07	0.0088	0.0008	
Neptune	42049-07-20 18:00 G		17079343.19	17079343.25	17079343.36	0.0088	0.0086	
Pluto	42054-12-03 12:29 G		17081304.69	17081305.02	17081305.36	0.0081	0.0005	
Uranus	42077-09-19 04:19 G		17089630.38	17089630.68	17089631.01	0.0138	0.0053	
Uranus	42121-12-12 12:58 G		17105784.78	17105785.04	17105785.32	0.0140	0.0038	
Jupiter	42122-01-17 05:17 G		17105820.70	17105820.72	17105820.75	0.0515	0.0512	
Saturn	42127-07-28 00:29 G		17107838.37	17107838.52	17107838.69	0.0297	0.0239	
Neptune	42127-08-05 04:19 G		17107846.45	17107846.68	17107846.93	0.0089	0.0050	
Neptune	42129-06-28 17:17 G		17108539.95	17108540.22	17108540.50	0.0089	0.0026	
Jupiter	42139-11-27 04:48 G		17112343.50	17112343.70	17112343.93	0.0509	0.0361	
Saturn	42143-07-10 17:46 G		17113665.06	17113665.24	17113665.45	0.0266	0.0209	
Uranus	42162-05-17 10:48 G		17120550.85	17120550.95	17120551.12	0.0138	0.0126	
Uranus	42206-08-08 01:26 G		17136703.41	17136703.56	17136703.76	0.0140	0.0109	
Neptune	42211-04-08 08:38 G		17138407.56	17138407.86	17138408.18	0.0088	0.0040	

Pluto	42212-01-26 05:46 G	17138700.52	17138700.74	17138700.98	0.0062	0.0040
Neptune	42213-03-04 20:24 G	17139104.11	17139104.35	17139104.66	0.0088	0.0054
Saturn	42215-12-23 03:07 G	17140127.42	17140127.63	17140127.85	0.0296	0.0172
Saturn	42231-12-06 08:10 G	17145954.56	17145954.84	17145955.14	0.0266	0.0123
Jupiter	42240-07-10 01:41 G	17149093.35	17149093.57	17149093.80	0.0516	0.0218
Uranus	42289-05-02 13:26 G	17166922.03	17166922.06	17166922.10	0.0140	0.0138
Neptune	42291-03-21 15:50 G	17167610.04	17167610.16	17167610.31	0.0089	0.0078
Neptune	42293-02-12 04:19 G	17168303.40	17168303.68	17168303.97	0.0089	0.0002
Jupiter	42294-02-20 00:29 G	17168676.22	17168676.52	17168676.82	0.0509	0.0071
Neptune	42295-01-06 16:19 G	17168997.06	17168997.18	17168997.36	0.0089	0.0075
Pluto	42303-03-16 02:53 G	17171986.31	17171986.62	17171986.96	0.0081	0.0020
Saturn	42304-05-19 23:17 G	17172417.21	17172417.47	17172417.73	0.0296	0.0065
Saturn	42320-05-03 09:36 G	17178244.57	17178244.90	17178245.22	0.0267	0.0018
Uranus	42329-10-03 19:41 G	17181684.98	17181685.32	17181685.66	0.0138	0.0005
Uranus	42373-12-26 23:46 G	17197840.21	17197840.49	17197840.77	0.0140	0.0006
Neptune	42374-11-20 12:43 G	17198168.87	17198169.03	17198169.26	0.0088	0.0073
Neptune	42376-10-17 01:12 G	17198865.22	17198865.55	17198865.89	0.0088	0.0021
Saturn	42392-10-15 04:48 G	17204707.43	17204707.70	17204707.96	0.0295	0.0049
Jupiter	42394-10-04 05:31 G	17205426.48	17205426.73	17205426.98	0.0517	0.0013
Saturn	42408-09-28 10:48 G	17210534.65	17210534.95	17210535.26	0.0267	0.0088
Jupiter	42448-05-16 01:12 G	17225009.28	17225009.55	17225009.82	0.0509	0.0242
Neptune	42456-09-28 17:31 G	17228066.98	17228067.23	17228067.52	0.0089	0.0029
Neptune	42458-08-23 05:31 G	17228760.51	17228760.73	17228760.99	0.0089	0.0049
Pluto	42460-05-05 20:38 G	17229382.20	17229382.36	17229382.57	0.0062	0.0049
Saturn	42481-03-12 04:19 G	17236997.47	17236997.68	17236997.92	0.0295	0.0159
Uranus	42497-02-17 14:38 G	17242819.03	17242819.11	17242819.24	0.0139	0.0132
Saturn	42497-02-22 22:48 G	17242824.22	17242824.45	17242824.71	0.0267	0.0172
Neptune	42540-05-31 07:55 G	17258626.49	17258626.83	17258627.18	0.0088	0.0011
Uranus	42541-05-17 04:19 G	17258977.47	17258977.68	17258977.90	0.0139	0.0089
Neptune	42542-04-27 19:26 G	17259323.22	17259323.31	17259323.46	0.0088	0.0083

Jupiter	42548-12-28 13:12 G	17261759.83	17261760.05	17261760.26	0.0516	0.0258
Pluto	42551-06-24 03:36 G	17262667.31	17262667.65	17262667.98	0.0081	0.0001
Saturn	42569-08-07 12:00 G	17269286.85	17269287.00	17269287.18	0.0295	0.0232
Uranus	42581-10-15 17:17 G	17273738.91	17273739.22	17273739.55	0.0139	0.0044
Saturn	42585-07-20 15:07 G	17275113.00	17275113.13	17275113.31	0.0267	0.0233
Neptune	42620-05-16 08:10 G	17287830.64	17287830.84	17287831.08	0.0089	0.0056
Neptune	42622-04-09 21:07 G	17288524.11	17288524.38	17288524.67	0.0089	0.0022
Uranus	42626-01-10 18:29 G	17289896.03	17289896.27	17289896.54	0.0140	0.0060
Saturn	42658-01-01 23:17 G	17301575.38	17301575.47	17301575.59	0.0296	0.0270
Jupiter	42667-06-21 17:17 G	17305033.09	17305033.22	17305033.36	0.0517	0.0433
Saturn	42673-12-14 14:10 G	17307401.02	17307401.09	17307401.18	0.0266	0.0258
Neptune	42704-01-14 16:48 G	17318387.90	17318388.20	17318388.51	0.0088	0.0043
Neptune	42705-12-11 03:07 G	17319084.38	17319084.63	17319084.94	0.0088	0.0052
Jupiter	42721-01-28 21:22 G	17324612.14	17324612.39	17324612.64	0.0509	0.0295
Saturn	42746-05-28 16:48 G	17333863.11	17333863.20	17333863.31	0.0296	0.0276
Uranus	42749-03-04 05:17 G	17334873.45	17334873.72	17334874.01	0.0139	0.0077
Neptune	42783-12-31 22:19 G	17347594.35	17347594.43	17347594.55	0.0089	0.0083
Neptune	42785-11-24 12:43 G	17348287.75	17348288.03	17348288.32	0.0089	0.0005
Neptune	42787-10-19 01:12 G	17348981.42	17348981.55	17348981.73	0.0089	0.0074
Uranus	42793-05-31 16:19 G	17351032.93	17351033.18	17351033.46	0.0140	0.0047
Pluto	42799-10-03 02:38 G	17353348.31	17353348.61	17353348.94	0.0081	0.0025
Saturn	42820-08-12 02:38 G	17360967.57	17360967.61	17360967.69	0.0264	0.0259
Jupiter	42821-09-16 10:19 G	17361367.68	17361367.93	17361368.18	0.0517	0.0009
Uranus	42833-10-29 03:36 G	17365793.42	17365793.65	17365793.90	0.0139	0.0096
Saturn	42834-10-20 23:17 G	17366150.36	17366150.47	17366150.61	0.0297	0.0261
Neptune	42867-08-28 03:36 G	17378149.48	17378149.65	17378149.86	0.0088	0.0074
Neptune	42869-07-24 13:26 G	17378845.72	17378846.06	17378846.39	0.0088	0.0020
Jupiter	42875-04-26 09:36 G	17380947.65	17380947.90	17380948.15	0.0509	0.0289
Uranus	42878-01-23 22:48 G	17381951.25	17381951.45	17381951.66	0.0140	0.0095
Saturn	42909-01-05 20:10 G	17393255.22	17393255.34	17393255.49	0.0263	0.0239

Saturn	42923-03-16 06:14 G	17398437.63	17398437.76	17398437.91	0.0297	0.0252
Neptune	42949-07-11 04:19 G	17408051.43	17408051.68	17408051.97	0.0089	0.0032
Neptune	42951-06-04 18:00 G	17408745.02	17408745.25	17408745.51	0.0089	0.0048
Jupiter	42975-12-13 06:43 G	17417702.66	17417702.78	17417702.93	0.0516	0.0434
Saturn	42997-05-31 21:50 G	17425543.21	17425543.41	17425543.63	0.0263	0.0200

44TH MILLENNIUM CE

This is a list of transits of Mars in the 44th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	43001-03-16 18:14 G		17426926.94	17426927.26	17426927.58	0.0139	0.0048	
Saturn	43011-08-10 00:29 G		17430725.39	17430725.52	17430725.66	0.0297	0.0258	
Neptune	43033-03-09 02:10 G		17438607.25	17438607.59	17438607.93	0.0088	0.0010	
Neptune	43035-02-03 11:02 G		17439303.90	17439303.96	17439304.11	0.0088	0.0085	
Uranus	43045-06-14 18:58 G		17443088.00	17443088.29	17443088.57	0.0139	0.0012	
Saturn	43085-10-26 19:12 G		17457832.04	17457832.30	17457832.58	0.0263	0.0139	
Uranus	43085-11-10 12:00 G		17457846.86	17457847.00	17457847.19	0.0139	0.0121	
Jupiter	43094-06-05 12:58 G		17460975.82	17460976.04	17460976.26	0.0517	0.0255	
Neptune	43113-02-25 21:07 G		17467815.19	17467815.38	17467815.62	0.0089	0.0058	
Neptune	43115-01-20 11:17 G		17468508.70	17468508.97	17468509.26	0.0089	0.0022	
Uranus	43130-02-08 06:58 G		17474006.75	17474006.79	17474006.88	0.0140	0.0136	
Jupiter	43148-01-09 05:46 G		17480550.48	17480550.74	17480551.01	0.0509	0.0254	
Saturn	43158-04-11 23:46 G		17484296.37	17484296.49	17484296.61	0.0300	0.0267	
Saturn	43174-03-24 05:46 G		17490121.43	17490121.74	17490122.06	0.0264	0.0055	

Neptune	43196-10-21 13:55 G	17498368.80	17498369.08	17498369.41	0.0088	0.0043
Neptune	43198-09-17 23:17 G	17499065.22	17499065.47	17499065.77	0.0088	0.0054
Uranus	43212-11-02 17:17 G	17504225.08	17504225.22	17504225.39	0.0139	0.0115
Saturn	43246-09-06 22:48 G	17516586.24	17516586.45	17516586.69	0.0299	0.0162
Jupiter	43248-08-30 00:43 G	17517309.28	17517309.53	17517309.78	0.0517	0.0016
Uranus	43253-03-28 19:12 G	17518980.97	17518981.30	17518981.64	0.0139	0.0009
Saturn	43262-08-19 04:19 G	17522411.37	17522411.68	17522412.01	0.0264	0.0046
Neptune	43276-10-11 12:29 G	17527578.94	17527579.02	17527579.12	0.0089	0.0084
Neptune	43278-09-05 04:34 G	17528272.40	17528272.69	17528272.98	0.0089	0.0004
Neptune	43280-07-29 19:12 G	17528966.15	17528966.30	17528966.45	0.0089	0.0075
Uranus	43297-06-28 04:19 G	17535143.41	17535143.68	17535143.96	0.0140	0.0029
Jupiter	43302-04-04 08:10 G	17536883.54	17536883.84	17536884.15	0.0508	0.0067
Saturn	43335-02-03 05:17 G	17548876.46	17548876.72	17548876.99	0.0299	0.0040
Saturn	43351-01-15 01:12 G	17554701.29	17554701.55	17554701.83	0.0265	0.0140
Neptune	43360-06-05 05:02 G	17558130.55	17558130.71	17558130.93	0.0088	0.0074
Neptune	43362-05-02 13:41 G	17558826.74	17558827.07	17558827.41	0.0088	0.0022
Jupiter	43402-11-25 02:10 G	17573642.37	17573642.59	17573642.82	0.0517	0.0233
Uranus	43420-08-15 02:53 G	17580115.57	17580115.62	17580115.69	0.0139	0.0136
Saturn	43423-07-02 07:26 G	17581166.56	17581166.81	17581167.08	0.0298	0.0068
Saturn	43439-06-12 14:10 G	17586990.94	17586991.09	17586991.27	0.0265	0.0226
Neptune	43442-04-22 20:24 G	17588036.10	17588036.35	17588036.64	0.0089	0.0031
Neptune	43444-03-16 11:02 G	17588729.75	17588729.96	17588730.23	0.0089	0.0050
Pluto	43455-05-06 19:12 G	17592798.07	17592798.30	17592798.58	0.0063	0.0034
Jupiter	43456-06-28 07:41 G	17593216.61	17593216.82	17593217.02	0.0509	0.0376
Uranus	43464-11-16 15:07 G	17596279.92	17596280.13	17596280.36	0.0139	0.0087
Saturn	43497-09-16 04:19 G	17608271.63	17608271.68	17608271.76	0.0263	0.0257
Uranus	43505-04-11 19:12 G	17611034.99	17611035.30	17611035.64	0.0139	0.0034
Saturn	43511-11-27 15:50 G	17613455.92	17613456.16	17613456.40	0.0299	0.0144
Neptune	43525-12-16 03:22 G	17618588.31	17618588.64	17618589.00	0.0088	0.0011
Neptune	43527-11-12 11:17 G	17619284.93	17619284.97	17619285.08	0.0088	0.0087

Uranus	43549-07-12 23:31 G	17627198.23	17627198.48	17627198.75	0.0139	0.0057
Saturn	43586-02-10 14:10 G	17640559.93	17640560.09	17640560.28	0.0262	0.0217
Saturn	43600-04-22 01:26 G	17645744.36	17645744.56	17645744.79	0.0299	0.0180
Neptune	43605-12-07 13:26 G	17647799.86	17647800.06	17647800.30	0.0089	0.0058
Neptune	43607-11-01 04:19 G	17648493.42	17648493.68	17648493.97	0.0089	0.0024
Uranus	43672-08-26 15:07 G	17672168.93	17672169.13	17672169.34	0.0139	0.0109
Saturn	43674-07-06 08:38 G	17672847.65	17672847.86	17672848.09	0.0262	0.0190
Jupiter	43675-08-12 05:02 G	17673249.47	17673249.71	17673249.96	0.0518	0.0133
Saturn	43688-09-14 16:48 G	17678031.99	17678032.20	17678032.42	0.0299	0.0180
Neptune	43689-07-29 18:14 G	17678349.98	17678350.26	17678350.58	0.0088	0.0042
Neptune	43691-06-26 01:12 G	17679046.30	17679046.55	17679046.84	0.0088	0.0055
Pluto	43703-08-15 22:48 G	17683479.14	17683479.45	17683479.75	0.0063	0.0001
Uranus	43716-11-30 19:12 G	17688335.05	17688335.30	17688335.58	0.0139	0.0051
Jupiter	43729-03-13 07:55 G	17692820.52	17692820.83	17692821.13	0.0508	0.0042
Uranus	43757-04-23 14:53 G	17703088.84	17703089.12	17703089.42	0.0139	0.0068
Saturn	43762-11-29 22:34 G	17705135.22	17705135.44	17705135.69	0.0261	0.0176
Neptune	43769-07-24 03:22 G	17707563.60	17707563.64	17707563.74	0.0089	0.0087
Neptune	43771-06-17 21:22 G	17708257.11	17708257.39	17708257.69	0.0089	0.0004
Neptune	43773-05-11 11:46 G	17708950.87	17708950.99	17708951.15	0.0089	0.0078
Saturn	43777-02-07 19:41 G	17710319.10	17710319.32	17710319.55	0.0300	0.0166
Uranus	43801-07-27 07:55 G	17719253.64	17719253.83	17719254.05	0.0140	0.0097
Jupiter	43829-11-08 04:19 G	17729584.50	17729584.68	17729584.88	0.0517	0.0332
Saturn	43851-04-25 11:31 G	17737422.73	17737422.98	17737423.24	0.0261	0.0156
Neptune	43853-03-14 10:34 G	17738111.79	17738111.94	17738112.17	0.0088	0.0074
Neptune	43855-02-08 16:05 G	17738807.85	17738808.17	17738808.51	0.0088	0.0023
Saturn	43865-07-04 01:41 G	17742606.35	17742606.57	17742606.82	0.0300	0.0152
Jupiter	43883-06-09 06:43 G	17749155.71	17749155.78	17749155.87	0.0509	0.0490
Uranus	43924-09-10 06:43 G	17764223.49	17764223.78	17764224.11	0.0139	0.0054
Neptune	43935-02-02 11:02 G	17768020.70	17768020.96	17768021.24	0.0089	0.0032
Neptune	43936-12-27 03:36 G	17768714.44	17768714.65	17768714.91	0.0089	0.0051

Saturn	43939-09-19 14:38 G	17769710.84	17769711.11	17769711.40	0.0261	0.0119
Jupiter	43948-05-01 17:31 G	17772858.04	17772858.23	17772858.43	0.0518	0.0323
Pluto	43951-11-24 23:17 G	17774160.27	17774160.47	17774160.73	0.0063	0.0041
Saturn	43953-11-27 16:05 G	17774893.95	17774894.17	17774894.40	0.0300	0.0164
Uranus	43968-12-14 20:38 G	17780390.09	17780390.36	17780390.65	0.0139	0.0019

45TH MILLENNIUM CE

This is a list of transits of Mars in the 45th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	44001-11-26 07:41 G		17792424.70	17792424.82	17792424.93	0.0508	0.0467	
Uranus	44009-05-07 04:19 G		17795143.55	17795143.68	17795143.85	0.0139	0.0124	
Neptune	44018-09-23 06:58 G		17798569.46	17798569.79	17798570.14	0.0088	0.0010	
Neptune	44020-08-19 11:17 G		17799265.95	17799265.97	17799266.07	0.0088	0.0088	
Saturn	44028-02-13 06:58 G		17801999.49	17801999.79	17802000.11	0.0262	0.0061	
Saturn	44042-04-23 07:41 G		17807182.63	17807182.82	17807183.01	0.0300	0.0211	
Uranus	44053-08-09 03:36 G		17811308.55	17811308.65	17811308.79	0.0140	0.0127	
Neptune	44098-09-18 00:29 G		17827784.32	17827784.52	17827784.75	0.0089	0.0060	
Neptune	44100-08-12 17:31 G		17828477.95	17828478.23	17828478.51	0.0089	0.0023	
Jupiter	44102-07-27 17:31 G		17829191.98	17829192.23	17829192.48	0.0518	0.0014	
Saturn	44116-07-10 19:12 G		17834288.99	17834289.30	17834289.62	0.0262	0.0024	
Saturn	44130-09-18 15:36 G		17839472.13	17839472.15	17839472.18	0.0300	0.0298	
Uranus	44136-05-04 09:36 G		17841526.84	17841526.90	17841527.01	0.0139	0.0132	
Jupiter	44156-02-20 21:22 G		17848758.10	17848758.39	17848758.69	0.0508	0.0095	

Uranus	44176-09-22 04:05 G	17856277.35	17856277.67	17856278.01	0.0139	0.0017
Neptune	44182-05-07 21:36 G	17858331.12	17858331.40	17858331.72	0.0088	0.0042
Neptune	44184-04-03 01:55 G	17859027.35	17859027.58	17859027.88	0.0088	0.0055
Saturn	44188-12-25 04:05 G	17860754.58	17860754.67	17860754.80	0.0302	0.0275
Saturn	44204-12-06 13:55 G	17866578.81	17866579.08	17866579.38	0.0262	0.0116
Uranus	44220-12-28 21:50 G	17872445.13	17872445.41	17872445.70	0.0139	0.0017
Jupiter	44256-10-20 19:55 G	17885525.12	17885525.33	17885525.56	0.0518	0.0246
Neptune	44264-03-29 06:58 G	17888241.51	17888241.79	17888242.09	0.0089	0.0006
Neptune	44266-02-20 22:34 G	17888935.33	17888935.44	17888935.61	0.0089	0.0078
Saturn	44277-05-23 13:26 G	17893044.84	17893045.06	17893045.31	0.0301	0.0153
Pluto	44291-04-20 20:24 G	17898125.05	17898125.35	17898125.69	0.0081	0.0021
Saturn	44293-05-03 12:14 G	17898868.84	17898869.01	17898869.21	0.0263	0.0214
Jupiter	44310-05-17 12:58 G	17905090.76	17905091.04	17905091.33	0.0508	0.0181
Neptune	44345-12-21 11:46 G	17918092.85	17918092.99	17918093.18	0.0088	0.0076
Neptune	44347-11-17 14:24 G	17918788.77	17918789.10	17918789.44	0.0088	0.0021
Saturn	44351-08-10 00:14 G	17920150.40	17920150.51	17920150.66	0.0261	0.0238
Saturn	44365-10-19 14:24 G	17925334.84	17925335.10	17925335.38	0.0301	0.0043
Uranus	44388-05-18 18:43 G	17933582.07	17933582.28	17933582.51	0.0139	0.0089
Jupiter	44411-01-15 03:22 G	17941858.60	17941858.64	17941858.71	0.0518	0.0504
Neptune	44427-11-13 16:34 G	17948004.95	17948005.19	17948005.48	0.0089	0.0036
Uranus	44428-10-06 00:29 G	17948332.21	17948332.52	17948332.84	0.0139	0.0044
Neptune	44429-10-07 11:31 G	17948698.75	17948698.98	17948699.24	0.0089	0.0049
Saturn	44440-01-04 00:29 G	17952439.31	17952439.52	17952439.76	0.0261	0.0179
Saturn	44454-03-15 21:36 G	17957624.13	17957624.40	17957624.67	0.0301	0.0033
Uranus	44473-01-11 05:46 G	17964500.51	17964500.74	17964501.02	0.0139	0.0062
Neptune	44511-07-02 03:22 G	17978550.31	17978550.64	17978550.99	0.0088	0.0014
Neptune	44513-05-28 06:00 G	17979246.66	17979246.75	17979246.88	0.0088	0.0084
Saturn	44528-05-30 11:31 G	17984727.72	17984727.98	17984728.26	0.0261	0.0132
Jupiter	44529-07-07 23:17 G	17985131.25	17985131.47	17985131.70	0.0519	0.0236
Pluto	44539-07-29 21:07 G	17988805.22	17988805.38	17988805.58	0.0081	0.0067

Saturn	44542-08-10 07:55 G	17989912.57	17989912.83	17989913.10	0.0301	0.0067
Jupiter	44583-01-28 12:14 G	18004693.80	18004694.01	18004694.23	0.0507	0.0353
Neptune	44591-06-30 03:07 G	18007768.44	18007768.63	18007768.83	0.0089	0.0066
Neptune	44593-05-23 21:22 G	18008462.12	18008462.39	18008462.69	0.0089	0.0020
Uranus	44596-02-22 20:38 G	18009467.09	18009467.36	18009467.65	0.0139	0.0076
Saturn	44616-10-24 10:34 G	18017015.67	18017015.94	18017016.25	0.0260	0.0107
Saturn	44631-01-03 19:12 G	18022200.04	18022200.30	18022200.57	0.0302	0.0070
Uranus	44640-06-01 19:12 G	18025637.05	18025637.30	18025637.58	0.0139	0.0053
Neptune	44675-02-13 15:36 G	18038311.88	18038312.15	18038312.44	0.0088	0.0050
Neptune	44677-01-09 16:19 G	18039007.93	18039008.18	18039008.50	0.0088	0.0049
Uranus	44680-10-19 15:36 G	18040386.96	18040387.15	18040387.40	0.0139	0.0103
Jupiter	44683-10-03 18:43 G	18041466.05	18041466.28	18041466.50	0.0518	0.0215
Pluto	44698-08-14 00:00 G	18046894.27	18046894.50	18046894.79	0.0063	0.0032
Saturn	44705-03-20 02:38 G	18049303.32	18049303.61	18049303.91	0.0260	0.0083
Saturn	44719-05-30 00:14 G	18054487.25	18054487.51	18054487.78	0.0302	0.0055
Uranus	44725-01-26 06:58 G	18056555.60	18056555.79	18056556.00	0.0139	0.0098
Jupiter	44737-04-26 10:48 G	18061028.67	18061028.95	18061029.23	0.0508	0.0173
Neptune	44757-01-08 06:58 G	18068225.51	18068225.79	18068226.09	0.0089	0.0011
Neptune	44758-12-03 00:43 G	18068919.39	18068919.53	18068919.70	0.0089	0.0074
Saturn	44793-08-12 22:19 G	18081591.13	18081591.43	18081591.74	0.0260	0.0058
Jupiter	44802-03-27 09:07 G	18084739.74	18084739.88	18084740.02	0.0519	0.0432
Saturn	44807-10-22 00:43 G	18086774.26	18086774.53	18086774.80	0.0303	0.0044
Neptune	44838-09-28 03:07 G	18098073.60	18098073.63	18098073.74	0.0088	0.0087
Neptune	44840-08-24 02:24 G	18098769.28	18098769.60	18098769.95	0.0088	0.0012
Uranus	44848-03-07 08:38 G	18101521.53	18101521.86	18101522.19	0.0139	0.0025
Saturn	44882-01-05 22:48 G	18113879.14	18113879.45	18113879.77	0.0260	0.0022
Uranus	44892-06-15 09:07 G	18117692.59	18117692.88	18117693.17	0.0139	0.0003
Saturn	44896-03-15 20:38 G	18119062.10	18119062.36	18119062.63	0.0302	0.0058
Neptune	44920-08-24 12:14 G	18127988.78	18127989.01	18127989.29	0.0089	0.0044
Neptune	44922-07-19 09:22 G	18128682.66	18128682.89	18128683.17	0.0089	0.0043

Pluto	44946-11-23 00:29 G	18137575.22	18137575.52	18137575.82	0.0063	0.0012
Jupiter	44956-06-21 21:22 G	18141074.14	18141074.39	18141074.64	0.0519	0.0024
Saturn	44970-06-02 18:00 G	18146167.94	18146168.25	18146168.56	0.0260	0.0039
Saturn	44984-08-10 07:26 G	18151350.55	18151350.81	18151351.06	0.0302	0.0108

46TH MILLENNIUM CE

This is a list of transits of Mars in the 46th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	45004-04-08 13:41 G		18158530.76	18158531.07	18158531.41	0.0088	0.0026	
Neptune	45006-03-05 12:14 G		18159226.85	18159227.01	18159227.24	0.0088	0.0072	
Jupiter	45010-01-09 09:36 G		18160632.66	18160632.90	18160633.16	0.0507	0.0276	
Uranus	45015-07-26 17:46 G		18162657.18	18162657.24	18162657.37	0.0140	0.0134	
Saturn	45058-10-28 23:02 G		18178457.18	18178457.46	18178457.75	0.0261	0.0111	
Uranus	45059-11-05 07:12 G		18178829.63	18178829.80	18178830.01	0.0139	0.0105	
Saturn	45073-01-05 22:48 G		18183640.26	18183640.45	18183640.67	0.0302	0.0201	
Neptune	45084-04-09 17:02 G		18187752.08	18187752.21	18187752.36	0.0089	0.0078	
Neptune	45086-03-04 14:24 G		18188445.82	18188446.10	18188446.40	0.0089	0.0011	
Uranus	45100-03-23 01:26 G		18193577.28	18193577.56	18193577.88	0.0139	0.0060	
Jupiter	45110-09-17 10:05 G		18197407.70	18197407.92	18197408.14	0.0518	0.0260	
Uranus	45144-06-30 22:48 G		18209748.19	18209748.45	18209748.72	0.0139	0.0051	
Saturn	45147-03-26 19:55 G		18210747.15	18210747.33	18210747.53	0.0261	0.0206	
Jupiter	45164-04-04 06:00 G		18216965.45	18216965.75	18216966.05	0.0507	0.0015	
Neptune	45167-11-21 23:46 G		18218292.29	18218292.49	18218292.75	0.0088	0.0065	

Neptune	45169-10-17 21:36 G	18218988.09	18218988.40	18218988.72	0.0088	0.0034
Pluto	45195-03-04 03:07 G	18228256.47	18228256.63	18228256.85	0.0063	0.0049
Saturn	45205-07-02 02:10 G	18232029.43	18232029.59	18232029.76	0.0260	0.0221
Saturn	45219-09-10 08:24 G	18237212.74	18237212.85	18237213.00	0.0303	0.0267
Neptune	45249-10-18 17:46 G	18248208.96	18248209.24	18248209.53	0.0089	0.0025
Neptune	45251-09-12 14:24 G	18248902.91	18248903.10	18248903.32	0.0089	0.0063
Jupiter	45264-12-10 12:58 G	18253740.99	18253741.04	18253741.11	0.0519	0.0501
Uranus	45267-08-08 20:53 G	18254712.10	18254712.37	18254712.69	0.0140	0.0065
Saturn	45293-11-26 15:50 G	18264318.92	18264319.16	18264319.44	0.0260	0.0145
Saturn	45308-02-06 10:19 G	18269502.69	18269502.93	18269503.16	0.0303	0.0157
Uranus	45311-11-19 23:46 G	18270885.23	18270885.49	18270885.77	0.0138	0.0047
Jupiter	45318-06-29 04:48 G	18273298.48	18273298.70	18273298.94	0.0506	0.0325
Neptune	45333-06-01 07:26 G	18278749.48	18278749.81	18278750.15	0.0088	0.0005
Uranus	45352-04-04 22:48 G	18285632.33	18285632.45	18285632.64	0.0140	0.0124
Saturn	45382-04-23 21:07 G	18296608.09	18296608.38	18296608.69	0.0260	0.0075
Jupiter	45383-06-02 19:41 G	18297013.12	18297013.32	18297013.53	0.0520	0.0308
Saturn	45396-07-02 17:46 G	18301791.98	18301792.24	18301792.51	0.0303	0.0084
Uranus	45396-07-14 19:55 G	18301804.18	18301804.33	18301804.51	0.0139	0.0114
Neptune	45413-06-04 18:14 G	18307972.07	18307972.26	18307972.50	0.0089	0.0061
Neptune	45415-04-29 17:46 G	18308665.97	18308666.24	18308666.53	0.0089	0.0029
Saturn	45470-09-18 07:55 G	18328896.53	18328896.83	18328897.15	0.0259	0.0035
Uranus	45479-04-10 07:55 G	18332022.83	18332022.83	18332022.90	0.0138	0.0138
Saturn	45484-11-26 20:24 G	18334080.08	18334080.35	18334080.62	0.0303	0.0052
Neptune	45497-01-13 17:46 G	18338510.97	18338511.24	18338511.54	0.0088	0.0045
Neptune	45498-12-10 12:29 G	18339206.79	18339207.02	18339207.32	0.0088	0.0055
Uranus	45519-08-24 10:19 G	18346767.61	18346767.93	18346768.27	0.0140	0.0014
Pluto	45534-07-29 14:38 G	18352220.97	18352221.11	18352221.33	0.0080	0.0068
Jupiter	45537-08-29 06:58 G	18353347.54	18353347.79	18353348.04	0.0519	0.0104
Saturn	45559-02-12 06:14 G	18361184.45	18361184.76	18361185.08	0.0259	0.0006
Uranus	45563-12-05 03:36 G	18362941.37	18362941.65	18362941.94	0.0138	0.0025

Saturn	45573-04-22 10:05 G	18366367.65	18366367.92	18366368.19	0.0303	0.0051
Neptune	45578-12-13 17:17 G	18368428.93	18368429.22	18368429.52	0.0089	0.0007
Neptune	45580-11-06 16:19 G	18369123.08	18369123.18	18369123.31	0.0089	0.0081
Jupiter	45591-03-14 02:38 G	18372902.32	18372902.61	18372902.90	0.0506	0.0127
Saturn	45647-07-08 00:00 G	18393472.19	18393472.50	18393472.81	0.0259	0.0016
Neptune	45660-08-28 06:29 G	18398272.70	18398272.77	18398272.89	0.0088	0.0084
Saturn	45661-09-14 06:43 G	18398654.52	18398654.78	18398655.05	0.0304	0.0068
Neptune	45662-07-24 23:46 G	18398968.17	18398968.49	18398968.83	0.0088	0.0014
Uranus	45687-01-10 00:29 G	18407903.30	18407903.52	18407903.79	0.0140	0.0092
Pluto	45693-08-12 02:53 G	18410309.54	18410309.62	18410309.77	0.0063	0.0059
Uranus	45731-04-25 04:48 G	18424078.47	18424078.70	18424078.96	0.0138	0.0071
Saturn	45735-12-01 16:34 G	18425759.88	18425760.19	18425760.50	0.0259	0.0040
Neptune	45742-07-29 15:07 G	18428191.89	18428192.13	18428192.40	0.0089	0.0045
Neptune	45744-06-22 14:53 G	18428885.89	18428886.12	18428886.40	0.0089	0.0046
Jupiter	45745-06-09 10:05 G	18429237.77	18429237.92	18429238.07	0.0506	0.0436
Saturn	45750-02-07 14:53 G	18430941.86	18430942.12	18430942.39	0.0303	0.0073
Uranus	45771-09-06 23:02 G	18438823.23	18438823.46	18438823.70	0.0140	0.0097
Pluto	45782-11-06 02:10 G	18442901.26	18442901.59	18442901.92	0.0080	0.0001
Jupiter	45810-05-18 14:24 G	18452955.85	18452956.10	18452956.35	0.0520	0.0097
Uranus	45815-12-19 22:48 G	18454997.24	18454997.45	18454997.68	0.0138	0.0088
Saturn	45824-04-26 23:31 G	18458048.19	18458048.48	18458048.79	0.0259	0.0084
Neptune	45826-03-09 13:12 G	18458729.74	18458730.05	18458730.38	0.0088	0.0025
Neptune	45828-02-03 06:14 G	18459425.61	18459425.76	18459425.97	0.0088	0.0074
Saturn	45838-07-04 04:19 G	18463229.41	18463229.68	18463229.95	0.0304	0.0059
Jupiter	45863-11-28 04:05 G	18472507.57	18472507.67	18472507.80	0.0505	0.0466
Neptune	45906-03-15 11:46 G	18487954.91	18487954.99	18487955.13	0.0089	0.0083
Neptune	45908-02-07 14:10 G	18488648.80	18488649.09	18488649.39	0.0089	0.0009
Saturn	45912-09-21 13:12 G	18490336.79	18490337.05	18490337.32	0.0259	0.0135
Saturn	45926-11-28 22:48 G	18495518.17	18495518.45	18495518.73	0.0303	0.0002
Uranus	45939-01-24 16:34 G	18499957.88	18499958.19	18499958.52	0.0141	0.0036

Pluto	45941-11-22 02:24 G	18500990.32	18500990.60	18500990.91	0.0063	0.0015
Jupiter	45964-08-12 16:34 G	18509289.98	18509290.19	18509290.42	0.0519	0.0264
Uranus	45983-05-10 06:43 G	18516134.49	18516134.78	18516135.07	0.0138	0.0002
Neptune	45989-10-22 04:05 G	18518491.47	18518491.67	18518491.93	0.0088	0.0064
Neptune	45991-09-17 19:12 G	18519187.02	18519187.30	18519187.63	0.0088	0.0035

47TH MILLENNIUM CE

This is a list of transits of Mars in the 47th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	46001-02-15 22:48 G		18522626.30	18522626.45	18522626.64	0.0260	0.0216	
Saturn	46015-04-25 10:34 G		18527807.68	18527807.94	18527808.21	0.0303	0.0091	
Jupiter	46018-02-21 12:14 G		18528840.72	18528841.01	18528841.30	0.0506	0.0126	
Saturn	46059-05-25 12:58 G		18543908.86	18543909.04	18543909.25	0.0260	0.0202	
Neptune	46071-09-22 10:19 G		18548411.67	18548411.93	18548412.23	0.0089	0.0029	
Neptune	46073-08-16 12:43 G		18549105.84	18549106.03	18549106.25	0.0089	0.0064	
Saturn	46103-09-21 17:17 G		18560098.04	18560098.22	18560098.43	0.0303	0.0211	
Saturn	46147-10-21 03:22 G		18576198.37	18576198.64	18576198.92	0.0259	0.0124	
Uranus	46150-09-28 11:02 G		18577271.77	18577271.96	18577272.19	0.0138	0.0094	
Neptune	46155-05-02 13:26 G		18578948.73	18578949.06	18578949.39	0.0088	0.0003	
Jupiter	46172-05-17 06:43 G		18585173.50	18585173.78	18585174.06	0.0505	0.0161	
Pluto	46190-03-02 06:00 G		18591671.48	18591671.75	18591672.07	0.0063	0.0020	
Uranus	46191-02-07 06:00 G		18592013.45	18592013.75	18592014.08	0.0141	0.0045	
Neptune	46235-05-09 06:43 G		18608174.60	18608174.78	18608175.00	0.0089	0.0066	

Uranus	46235-05-25 04:05 G	18608190.43	18608190.67	18608190.94	0.0138	0.0067
Saturn	46236-03-17 20:24 G	18608488.05	18608488.35	18608488.66	0.0260	0.0040
Neptune	46237-04-02 10:34 G	18608868.67	18608868.94	18608869.24	0.0089	0.0028
Jupiter	46237-04-28 15:36 G	18608894.96	18608895.15	18608895.34	0.0522	0.0343
Saturn	46250-05-25 11:31 G	18613669.90	18613669.98	18613670.10	0.0303	0.0282
Neptune	46318-12-16 09:07 G	18638710.60	18638710.88	18638711.19	0.0088	0.0040
Neptune	46320-11-10 21:36 G	18639406.19	18639406.40	18639406.68	0.0088	0.0059
Saturn	46324-08-12 22:34 G	18640777.14	18640777.44	18640777.76	0.0259	0.0021
Saturn	46338-10-20 13:41 G	18645958.87	18645959.07	18645959.28	0.0304	0.0208
Uranus	46358-06-26 23:46 G	18653148.25	18653148.49	18653148.76	0.0141	0.0089
Jupiter	46391-07-24 13:26 G	18665228.81	18665229.06	18665229.32	0.0520	0.0012
Neptune	46400-11-16 08:53 G	18668631.58	18668631.87	18668632.17	0.0089	0.0009
Neptune	46402-10-11 11:02 G	18669325.90	18669325.96	18669326.10	0.0089	0.0085
Uranus	46402-10-13 01:41 G	18669327.30	18669327.57	18669327.86	0.0137	0.0034
Saturn	46413-01-06 13:55 G	18673065.79	18673066.08	18673066.38	0.0259	0.0072
Saturn	46427-03-15 22:34 G	18678247.22	18678247.44	18678247.68	0.0304	0.0172
Pluto	46438-06-11 08:24 G	18682352.74	18682352.85	18682353.04	0.0063	0.0056
Uranus	46443-02-20 13:55 G	18684067.86	18684068.08	18684068.35	0.0141	0.0092
Jupiter	46445-01-29 10:05 G	18684776.74	18684776.92	18684777.13	0.0505	0.0383
Neptune	46482-07-30 07:41 G	18698472.69	18698472.82	18698473.00	0.0088	0.0077
Neptune	46484-06-24 19:41 G	18699168.01	18699168.32	18699168.64	0.0088	0.0022
Uranus	46487-06-07 20:10 G	18700246.26	18700246.34	18700246.48	0.0138	0.0127
Saturn	46501-06-02 16:48 G	18705353.92	18705354.20	18705354.49	0.0258	0.0104
Saturn	46515-08-09 02:24 G	18710534.39	18710534.60	18710534.84	0.0304	0.0175
Jupiter	46545-10-19 07:26 G	18721563.71	18721563.81	18721563.92	0.0520	0.0473
Neptune	46564-07-02 07:41 G	18728394.58	18728394.82	18728395.09	0.0089	0.0046
Neptune	46566-05-27 12:43 G	18729088.79	18729089.03	18729089.29	0.0089	0.0049
Uranus	46570-03-03 02:38 G	18730464.54	18730464.61	18730464.71	0.0137	0.0131
Saturn	46589-10-26 08:53 G	18737641.61	18737641.87	18737642.15	0.0258	0.0127
Jupiter	46599-04-27 14:38 G	18741111.83	18741112.11	18741112.39	0.0505	0.0162

Saturn	46604-01-02 06:43 G	18742821.57	18742821.78	18742822.02	0.0304	0.0183
Uranus	46610-07-10 08:53 G	18745202.57	18745202.87	18745203.19	0.0141	0.0045
Neptune	46648-02-08 19:41 G	18758930.01	18758930.32	18758930.66	0.0088	0.0015
Neptune	46650-01-04 07:12 G	18759625.76	18759625.80	18759625.89	0.0088	0.0086
Uranus	46654-10-27 20:38 G	18761383.08	18761383.36	18761383.65	0.0138	0.0030
Jupiter	46664-04-11 12:58 G	18764836.81	18764837.04	18764837.28	0.0521	0.0216
Saturn	46678-03-22 06:29 G	18769929.54	18769929.77	18769930.03	0.0258	0.0157
Saturn	46692-05-26 03:50 G	18775108.44	18775108.66	18775108.87	0.0304	0.0195
Neptune	46728-02-17 05:46 G	18788157.65	18788157.74	18788157.89	0.0089	0.0082
Neptune	46730-01-11 13:26 G	18788851.76	18788852.06	18788852.35	0.0089	0.0014
Saturn	46766-08-16 04:48 G	18802217.49	18802217.70	18802217.92	0.0259	0.0186
Saturn	46780-10-20 01:41 G	18807396.35	18807396.57	18807396.81	0.0304	0.0172
Neptune	46811-09-23 23:31 G	18818692.21	18818692.48	18818692.75	0.0088	0.0050
Neptune	46813-08-19 08:53 G	18819387.60	18819387.87	18819388.14	0.0088	0.0049
Jupiter	46818-07-08 05:17 G	18821171.49	18821171.72	18821171.95	0.0521	0.0227
Uranus	46822-03-17 13:12 G	18822519.81	18822520.05	18822520.30	0.0137	0.0076
Saturn	46824-11-21 12:58 G	18823499.95	18823500.04	18823500.18	0.0259	0.0240
Saturn	46855-01-10 00:29 G	18834506.44	18834506.52	18834506.63	0.0259	0.0246
Uranus	46862-07-23 09:36 G	18837257.59	18837257.90	18837258.23	0.0141	0.0021
Saturn	46869-03-15 15:07 G	18839684.88	18839685.13	18839685.40	0.0303	0.0119
Jupiter	46872-01-11 01:26 G	18840716.32	18840716.56	18840716.82	0.0504	0.0268
Neptune	46893-08-26 13:26 G	18848614.78	18848615.06	18848615.37	0.0089	0.0021
Neptune	46895-07-21 19:26 G	18849309.18	18849309.31	18849309.51	0.0089	0.0075
Uranus	46906-11-11 02:38 G	18853438.38	18853438.61	18853438.86	0.0137	0.0080
Saturn	46913-04-18 18:14 G	18855789.04	18855789.26	18855789.50	0.0259	0.0169
Saturn	46957-08-11 10:19 G	18871974.65	18871974.93	18871975.21	0.0303	0.0018
Neptune	46975-05-09 04:48 G	18878454.67	18878454.70	18878454.81	0.0088	0.0086
Neptune	46977-04-03 13:41 G	18879149.75	18879150.07	18879150.40	0.0088	0.0014

48TH MILLENNIUM CE

This is a list of transits of Mars in the 48th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	47001-09-14 02:24	G	18888078.33	18888078.60	18888078.89	0.0259	0.0100	
Jupiter	47026-04-07 03:22	G	18897049.35	18897049.64	18897049.94	0.0504	0.0044	
Uranus	47029-12-09 18:14	G	18898392.16	18898392.26	18898392.39	0.0141	0.0131	
Saturn	47046-01-07 17:46	G	18904264.97	18904265.24	18904265.50	0.0303	0.0101	
Neptune	47057-04-12 15:07	G	18908377.92	18908378.13	18908378.39	0.0089	0.0057	
Neptune	47059-03-07 23:02	G	18909072.20	18909072.46	18909072.73	0.0089	0.0041	
Uranus	47074-03-31 18:29	G	18914574.99	18914575.27	18914575.56	0.0137	0.0029	
Saturn	47090-02-09 00:00	G	18920368.19	18920368.50	18920368.81	0.0260	0.0010	
Jupiter	47091-03-24 07:55	G	18920776.65	18920776.83	18920777.03	0.0523	0.0354	
Uranus	47114-08-06 07:41	G	18929311.53	18929311.82	18929312.14	0.0141	0.0051	
Saturn	47134-06-06 01:12	G	18936555.36	18936555.55	18936555.74	0.0303	0.0222	
Neptune	47140-11-17 19:26	G	18938912.01	18938912.31	18938912.64	0.0088	0.0022	
Neptune	47142-10-14 03:50	G	18939607.53	18939607.66	18939607.81	0.0088	0.0079	
Uranus	47158-11-25 10:19	G	18945493.84	18945493.93	18945494.05	0.0138	0.0129	
Saturn	47178-07-07 10:48	G	18952657.65	18952657.95	18952658.25	0.0259	0.0061	
Jupiter	47180-07-01 05:02	G	18953382.51	18953382.71	18953382.92	0.0504	0.0360	
Neptune	47222-10-22 01:41	G	18968835.27	18968835.57	18968835.87	0.0089	0.0006	
Jupiter	47245-06-17 18:14	G	18977110.01	18977110.26	18977110.52	0.0522	0.0053	
Saturn	47266-12-01 16:05	G	18984946.91	18984947.17	18984947.44	0.0259	0.0129	
Uranus	47281-12-22 08:53	G	18990446.63	18990446.87	18990447.15	0.0141	0.0082	

Neptune	47304-07-03 05:46 G	18998674.51	18998674.74	18998675.01	0.0088	0.0056
Neptune	47306-05-29 11:46 G	18999369.71	18999369.99	18999370.28	0.0088	0.0044
Uranus	47326-04-14 22:19 G	19006630.13	19006630.43	19006630.72	0.0137	0.0018
Saturn	47355-04-28 06:43 G	19017235.58	19017235.78	19017236.03	0.0258	0.0176
Uranus	47366-08-19 02:53 G	19021366.44	19021366.62	19021366.85	0.0141	0.0108
Saturn	47369-06-30 23:02 G	19022413.44	19022413.46	19022413.52	0.0304	0.0301
Neptune	47386-06-07 02:38 G	19028598.33	19028598.61	19028598.91	0.0089	0.0028
Neptune	47388-05-01 12:14 G	19029292.84	19029293.01	19029293.22	0.0089	0.0070
Jupiter	47399-09-13 02:10 G	19033444.41	19033444.59	19033444.78	0.0522	0.0363
Saturn	47413-08-04 18:00 G	19038518.19	19038518.25	19038518.34	0.0258	0.0249
Saturn	47443-09-22 08:24 G	19049523.69	19049523.85	19049524.05	0.0258	0.0209
Jupiter	47453-03-16 16:48 G	19052986.91	19052987.20	19052987.49	0.0503	0.0069
Saturn	47457-11-24 13:12 G	19054700.98	19054701.05	19054701.14	0.0303	0.0290
Neptune	47470-01-11 21:36 G	19059132.09	19059132.40	19059132.73	0.0088	0.0010
Uranus	47493-09-02 02:53 G	19067766.44	19067766.62	19067766.84	0.0137	0.0101
Saturn	47501-12-29 15:07 G	19070806.00	19070806.13	19070806.30	0.0258	0.0224
Jupiter	47518-03-06 22:48 G	19076717.27	19076717.45	19076717.64	0.0523	0.0365
Saturn	47532-02-16 09:07 G	19081811.78	19081811.88	19081812.00	0.0258	0.0241
Uranus	47534-01-05 15:07 G	19082500.84	19082501.13	19082501.45	0.0141	0.0042
Neptune	47550-01-22 03:50 G	19088361.47	19088361.66	19088361.89	0.0089	0.0064
Neptune	47551-12-17 14:10 G	19089055.84	19089056.09	19089056.39	0.0089	0.0037
Uranus	47578-04-28 17:46 G	19098684.98	19098685.24	19098685.52	0.0137	0.0055
Saturn	47590-05-24 15:36 G	19103093.96	19103094.15	19103094.37	0.0259	0.0190
Jupiter	47607-06-12 11:46 G	19109321.83	19109321.99	19109322.14	0.0504	0.0424
Uranus	47618-09-01 00:29 G	19113420.46	19113420.52	19113420.60	0.0141	0.0137
Neptune	47633-08-27 08:10 G	19118894.54	19118894.84	19118895.16	0.0088	0.0025
Saturn	47634-09-11 15:50 G	19119275.15	19119275.16	19119275.18	0.0303	0.0302
Neptune	47635-07-23 12:29 G	19119589.90	19119590.02	19119590.22	0.0088	0.0077
Jupiter	47672-06-01 00:43 G	19133052.28	19133052.53	19133052.78	0.0522	0.0140
Saturn	47678-10-17 11:31 G	19135381.76	19135381.98	19135382.23	0.0259	0.0166

Neptune	47715-08-02 16:19 G	19148818.88	19148819.18	19148819.49	0.0089	0.0001
Saturn	47723-02-05 06:43 G	19151562.70	19151562.78	19151562.89	0.0303	0.0285
Jupiter	47725-12-01 02:24 G	19152592.44	19152592.60	19152592.77	0.0503	0.0412
Uranus	47745-09-16 01:26 G	19159821.31	19159821.56	19159821.84	0.0137	0.0060
Saturn	47767-03-14 02:24 G	19167670.34	19167670.60	19167670.88	0.0260	0.0115
Uranus	47786-01-17 21:22 G	19174555.08	19174555.39	19174555.71	0.0141	0.0004
Neptune	47797-04-11 21:50 G	19178657.20	19178657.41	19178657.67	0.0088	0.0060
Neptune	47799-03-08 00:00 G	19179352.22	19179352.50	19179352.80	0.0088	0.0041
Saturn	47811-07-03 05:46 G	19183851.56	19183851.74	19183851.95	0.0302	0.0218
Uranus	47830-05-12 15:22 G	19190739.95	19190740.14	19190740.36	0.0137	0.0098
Saturn	47855-08-08 19:41 G	19199959.03	19199959.32	19199959.62	0.0260	0.0066
Neptune	47879-03-18 15:07 G	19208581.85	19208582.13	19208582.42	0.0089	0.0034
Jupiter	47880-02-25 15:36 G	19208925.87	19208926.15	19208926.44	0.0502	0.0055
Neptune	47881-02-10 03:36 G	19209276.47	19209276.65	19209276.88	0.0089	0.0067
Saturn	47899-11-27 22:34 G	19216141.19	19216141.44	19216141.71	0.0302	0.0121
Saturn	47944-01-04 10:48 G	19232248.65	19232248.95	19232249.25	0.0260	0.0016
Jupiter	47945-02-16 13:12 G	19232657.87	19232658.05	19232658.24	0.0525	0.0371
Uranus	47953-06-07 02:24 G	19235690.52	19235690.60	19235690.73	0.0141	0.0134
Neptune	47962-10-22 12:29 G	19239114.70	19239115.02	19239115.35	0.0088	0.0006
Saturn	47988-04-25 06:58 G	19248431.50	19248431.79	19248432.07	0.0302	0.0003
Uranus	47997-09-29 16:34 G	19251875.91	19251876.19	19251876.49	0.0137	0.0024

49TH MILLENNIUM CE

This is a list of transits of Mars in the 49th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Saturn	48032-05-30 23:31 G	19264538.21	19264538.48	19264538.77	0.0260	0.0090
Jupiter	48034-05-21 18:00 G	19265259.00	19265259.25	19265259.50	0.0503	0.0259
Uranus	48038-01-31 13:55 G	19266609.80	19266610.08	19266610.39	0.0141	0.0051
Neptune	48042-11-01 12:14 G	19268344.86	19268345.01	19268345.24	0.0089	0.0071
Neptune	48044-09-26 02:53 G	19269039.34	19269039.62	19269039.91	0.0089	0.0032
Saturn	48076-09-20 17:46 G	19280721.98	19280722.24	19280722.50	0.0302	0.0125
Uranus	48082-05-25 06:43 G	19282794.70	19282794.78	19282794.86	0.0137	0.0132
Jupiter	48099-05-12 15:36 G	19288990.89	19288991.15	19288991.40	0.0524	0.0097
Saturn	48120-10-26 17:02 G	19296828.00	19296828.21	19296828.44	0.0260	0.0174
Neptune	48126-06-07 01:41 G	19298877.28	19298877.57	19298877.88	0.0088	0.0029
Neptune	48128-05-02 02:38 G	19299572.46	19299572.61	19299572.82	0.0088	0.0073
Saturn	48165-02-16 05:31 G	19313011.55	19313011.73	19313011.94	0.0303	0.0220
Saturn	48179-02-03 02:24 G	19318111.48	19318111.60	19318111.75	0.0260	0.0231
Uranus	48205-06-20 05:31 G	19327744.53	19327744.73	19327744.97	0.0141	0.0101
Neptune	48208-05-13 01:41 G	19328802.27	19328802.57	19328802.89	0.0089	0.0005
Saturn	48209-03-23 21:22 G	19329117.29	19329117.39	19329117.52	0.0259	0.0238
Uranus	48249-10-13 12:00 G	19343930.71	19343931.00	19343931.30	0.0137	0.0014
Saturn	48253-07-14 05:31 G	19345300.66	19345300.73	19345300.84	0.0303	0.0286
Jupiter	48253-08-07 09:36 G	19345324.67	19345324.90	19345325.12	0.0524	0.0261
Saturn	48267-06-30 23:31 G	19350400.27	19350400.48	19350400.71	0.0259	0.0173
Neptune	48290-01-20 16:05 G	19358639.98	19358640.17	19358640.41	0.0088	0.0065
Uranus	48290-02-13 17:46 G	19358664.01	19358664.24	19358664.52	0.0141	0.0085
Neptune	48291-12-16 14:24 G	19359334.83	19359335.10	19359335.41	0.0088	0.0037
Jupiter	48307-02-04 16:34 G	19364862.95	19364863.19	19364863.45	0.0501	0.0245
Saturn	48341-12-07 16:19 G	19377588.15	19377588.18	19377588.22	0.0303	0.0300
Saturn	48355-11-25 05:31 G	19382688.48	19382688.73	19382688.98	0.0259	0.0137
Neptune	48371-12-27 20:24 G	19388565.10	19388565.35	19388565.65	0.0089	0.0042
Neptune	48373-11-21 12:29 G	19389259.83	19389260.02	19389260.28	0.0089	0.0063

Uranus	48417-03-02 17:02 G	19405067.01	19405067.21	19405067.42	0.0137	0.0101
Saturn	48444-04-19 07:26 G	19414976.54	19414976.81	19414977.09	0.0260	0.0103
Neptune	48455-08-01 05:02 G	19419097.39	19419097.71	19419098.03	0.0088	0.0001
Uranus	48457-07-03 06:29 G	19419799.47	19419799.77	19419800.07	0.0141	0.0040
Jupiter	48461-05-01 07:12 G	19421197.54	19421197.80	19421198.06	0.0502	0.0222
Uranus	48501-10-27 07:12 G	19435985.55	19435985.80	19435986.09	0.0137	0.0058
Saturn	48518-09-24 19:41 G	19442162.25	19442162.32	19442162.40	0.0303	0.0290
Jupiter	48526-04-25 21:07 G	19444932.12	19444932.38	19444932.65	0.0524	0.0009
Saturn	48532-09-12 21:50 G	19447264.14	19447264.41	19447264.70	0.0260	0.0087
Neptune	48535-08-12 14:10 G	19448327.97	19448328.09	19448328.24	0.0089	0.0080
Neptune	48537-07-07 07:55 G	19449022.55	19449022.83	19449023.14	0.0089	0.0025
Neptune	48619-03-17 18:58 G	19478860.01	19478860.29	19478860.59	0.0088	0.0036
Saturn	48621-02-07 03:50 G	19479552.37	19479552.66	19479552.95	0.0260	0.0049
Neptune	48621-02-09 16:05 G	19479554.99	19479555.17	19479555.41	0.0088	0.0066
Uranus	48669-03-16 11:02 G	19497121.69	19497121.96	19497122.23	0.0137	0.0061
Pluto	48672-12-13 21:36 G	19498490.18	19498490.40	19498490.67	0.0064	0.0040
Jupiter	48680-07-21 16:19 G	19501267.08	19501267.18	19501267.27	0.0525	0.0486
Neptune	48701-02-21 01:55 G	19508785.28	19508785.58	19508785.90	0.0089	0.0014
Saturn	48709-07-04 08:10 G	19511840.54	19511840.84	19511841.14	0.0260	0.0017
Uranus	48709-07-18 00:58 G	19511854.23	19511854.54	19511854.86	0.0141	0.0012
Jupiter	48734-01-16 17:02 G	19520802.94	19520803.21	19520803.49	0.0500	0.0140
Uranus	48753-11-10 06:00 G	19528040.58	19528040.75	19528040.97	0.0137	0.0103
Pluto	48762-03-10 13:12 G	19531082.74	19531083.05	19531083.38	0.0080	0.0008
Neptune	48782-10-31 09:22 G	19538622.74	19538622.89	19538623.08	0.0088	0.0074
Neptune	48784-09-25 04:05 G	19539317.38	19539317.67	19539317.98	0.0088	0.0028
Saturn	48797-11-28 12:29 G	19544129.74	19544130.02	19544130.32	0.0261	0.0050
Jupiter	48799-01-10 23:46 G	19544538.35	19544538.49	19544538.66	0.0526	0.0421
Saturn	48842-03-14 20:38 G	19560307.18	19560307.36	19560307.58	0.0301	0.0216
Neptune	48864-10-05 15:07 G	19568547.89	19568548.13	19568548.39	0.0089	0.0054
Neptune	48866-08-31 11:02 G	19569242.74	19569242.96	19569243.24	0.0089	0.0053

Uranus	48876-12-03 10:05 G	19572989.78	19572989.92	19572990.09	0.0141	0.0123
Saturn	48886-04-24 17:31 G	19576418.97	19576419.23	19576419.51	0.0261	0.0113
Jupiter	48888-04-11 05:02 G	19577136.46	19577136.71	19577136.97	0.0501	0.0207
Pluto	48921-03-26 21:07 G	19589173.08	19589173.38	19589173.70	0.0064	0.0009
Uranus	48921-03-30 15:22 G	19589176.84	19589177.14	19589177.44	0.0137	0.0008
Saturn	48930-08-11 09:07 G	19592597.60	19592597.88	19592598.15	0.0300	0.0092
Neptune	48948-05-10 18:00 G	19599079.94	19599080.25	19599080.57	0.0088	0.0011
Jupiter	48953-04-06 03:50 G	19600871.40	19600871.66	19600871.92	0.0526	0.0128
Uranus	48961-07-31 04:48 G	19603909.44	19603909.70	19603909.97	0.0141	0.0075
Saturn	48974-09-20 12:43 G	19608708.84	19608709.03	19608709.23	0.0261	0.0198

50TH MILLENNIUM CE

This is a list of transits of Mars in the 50th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	49019-01-07 11:31 G	19624887.69	19624887.98	19624888.27	0.0301	0.0026		
Neptune	49030-04-17 00:58 G	19629005.24	19629005.54	19629005.86	0.0089	0.0013		
Saturn	49032-12-29 08:53 G	19629992.70	19629992.87	19629993.07	0.0261	0.0202		
Uranus	49088-08-17 21:22 G	19650313.26	19650313.39	19650313.55	0.0137	0.0120		
Saturn	49107-06-05 10:19 G	19657177.68	19657177.93	19657178.21	0.0301	0.0131		
Jupiter	49107-07-02 10:05 G	19657204.68	19657204.92	19657205.17	0.0526	0.0180		
Neptune	49111-12-26 06:14 G	19658842.53	19658842.76	19658843.04	0.0088	0.0051		
Neptune	49113-11-19 23:46 G	19659537.26	19659537.49	19659537.77	0.0088	0.0052		
Saturn	49121-05-26 18:29 G	19662282.02	19662282.27	19662282.54	0.0261	0.0129		

Uranus	49128-12-19 02:10 G	19665045.30	19665045.59	19665045.90	0.0142	0.0044
Jupiter	49160-12-25 23:46 G	19676740.29	19676740.49	19676740.70	0.0500	0.0342
Uranus	49173-04-13 16:19 G	19681231.90	19681232.18	19681232.48	0.0137	0.0044
Neptune	49193-11-30 11:31 G	19688767.69	19688767.98	19688768.28	0.0089	0.0030
Neptune	49195-10-26 07:55 G	19689462.69	19689462.83	19689463.00	0.0089	0.0078
Saturn	49195-10-29 18:58 G	19689466.07	19689466.29	19689466.53	0.0302	0.0183
Saturn	49209-10-20 16:05 G	19694570.89	19694571.17	19694571.46	0.0261	0.0072
Neptune	49277-07-04 11:17 G	19719299.66	19719299.97	19719300.29	0.0088	0.0011
Saturn	49284-03-23 22:19 G	19721754.24	19721754.43	19721754.64	0.0301	0.0219
Saturn	49298-03-16 05:46 G	19726859.45	19726859.74	19726860.04	0.0261	0.0023
Jupiter	49315-03-23 04:19 G	19733074.40	19733074.68	19733074.96	0.0500	0.0070
Uranus	49340-09-01 03:07 G	19742368.38	19742368.63	19742368.92	0.0136	0.0064
Neptune	49357-07-15 18:29 G	19748530.13	19748530.27	19748530.48	0.0089	0.0075
Neptune	49359-06-10 18:00 G	19749224.99	19749225.25	19749225.56	0.0089	0.0036
Saturn	49372-08-16 17:31 G	19754041.03	19754041.23	19754041.45	0.0301	0.0208
Jupiter	49380-03-17 23:02 G	19756811.21	19756811.46	19756811.72	0.0526	0.0181
Uranus	49381-01-01 02:10 G	19757100.28	19757100.59	19757100.90	0.0142	0.0012
Saturn	49386-08-10 00:43 G	19759147.24	19759147.53	19759147.83	0.0261	0.0003
Pluto	49415-11-28 11:17 G	19769848.81	19769848.97	19769849.20	0.0064	0.0051
Uranus	49425-04-28 05:02 G	19773287.55	19773287.71	19773287.91	0.0137	0.0110
Neptune	49441-02-17 23:31 G	19779062.20	19779062.48	19779062.79	0.0088	0.0031
Neptune	49443-01-13 14:24 G	19779756.95	19779757.10	19779757.30	0.0088	0.0073
Saturn	49461-01-10 01:41 G	19786328.38	19786328.57	19786328.79	0.0301	0.0215
Saturn	49475-01-04 02:53 G	19791435.33	19791435.62	19791435.91	0.0261	0.0032
Pluto	49505-02-23 02:10 G	19802442.38	19802442.59	19802442.84	0.0079	0.0055
Neptune	49523-01-25 00:00 G	19808987.18	19808987.50	19808987.81	0.0089	0.0010
Jupiter	49534-06-15 01:55 G	19813146.39	19813146.58	19813146.78	0.0527	0.0358
Uranus	49548-05-22 03:50 G	19818236.45	19818236.66	19818236.88	0.0142	0.0104
Saturn	49549-06-05 07:12 G	19818615.60	19818615.80	19818616.00	0.0300	0.0216
Saturn	49563-05-30 19:55 G	19823723.04	19823723.33	19823723.62	0.0262	0.0047

Jupiter	49587-12-08 09:07 G	19832680.63	19832680.88	19832681.13	0.0499	0.0226
Uranus	49592-09-15 19:41 G	19834424.02	19834424.32	19834424.63	0.0136	0.0011
Neptune	49604-10-03 13:12 G	19838824.91	19838825.05	19838825.26	0.0088	0.0072
Neptune	49606-08-29 01:55 G	19839519.31	19839519.58	19839519.90	0.0088	0.0031
Uranus	49633-01-16 01:26 G	19849156.35	19849156.56	19849156.79	0.0142	0.0101
Saturn	49637-10-29 16:48 G	19850904.07	19850904.20	19850904.35	0.0300	0.0263
Saturn	49651-10-24 10:34 G	19856011.67	19856011.94	19856012.22	0.0262	0.0094
Pluto	49664-03-10 10:48 G	19860532.73	19860532.95	19860533.18	0.0065	0.0044
Neptune	49686-09-08 00:00 G	19868749.29	19868749.50	19868749.78	0.0090	0.0058
Neptune	49688-08-03 02:53 G	19869444.37	19869444.62	19869444.87	0.0089	0.0054
Saturn	49740-03-20 03:07 G	19888300.39	19888300.63	19888300.89	0.0262	0.0140
Jupiter	49742-03-04 08:53 G	19889014.61	19889014.87	19889015.14	0.0499	0.0169
Uranus	49760-02-04 08:38 G	19895560.65	19895560.86	19895561.11	0.0136	0.0090
Neptune	49770-04-13 15:36 G	19899281.84	19899282.15	19899282.46	0.0088	0.0011
Saturn	49784-06-29 19:41 G	19904473.27	19904473.32	19904473.40	0.0298	0.0290
Uranus	49800-06-05 20:24 G	19910292.06	19910292.35	19910292.67	0.0142	0.0025
Jupiter	49807-02-28 21:50 G	19912751.16	19912751.41	19912751.67	0.0528	0.0191
Saturn	49828-08-15 17:17 G	19920590.07	19920590.22	19920590.39	0.0262	0.0219
Uranus	49844-09-30 11:17 G	19926479.75	19926479.97	19926480.23	0.0136	0.0084
Neptune	49852-03-19 03:50 G	19929206.36	19929206.66	19929206.99	0.0090	0.0008
Saturn	49872-11-26 00:00 G	19936763.27	19936763.50	19936763.75	0.0299	0.0169
Saturn	49886-11-23 19:12 G	19941874.11	19941874.30	19941874.52	0.0263	0.0182
Jupiter	49896-05-28 12:29 G	19945347.95	19945348.02	19945348.12	0.0499	0.0473
Pluto	49910-08-02 07:12 G	19950525.65	19950525.80	19950526.03	0.0065	0.0052
Neptune	49933-11-28 04:34 G	19959044.46	19959044.69	19959044.95	0.0088	0.0054
Neptune	49935-10-23 15:50 G	19959738.92	19959739.16	19959739.44	0.0088	0.0050
Saturn	49961-04-24 12:43 G	19969053.74	19969054.03	19969054.32	0.0299	0.0042
Jupiter	49961-05-24 21:36 G	19969084.14	19969084.40	19969084.67	0.0528	0.0101
Saturn	49975-04-21 10:05 G	19974163.66	19974163.92	19974164.20	0.0263	0.0102

51ST MILLENNIUM CE

This is a list of transits of Mars in the 51st millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	50012-02-19 05:31	G	19987616.43	19987616.73	19987617.04	0.0136	0.0010	
Jupiter	50014-11-17 09:07	G	19988618.70	19988618.88	19988619.07	0.0498	0.0373	
Neptune	50015-11-02 01:26	G	19988968.29	19988968.56	19988968.85	0.0090	0.0042	
Neptune	50017-09-27 05:31	G	19989663.55	19989663.73	19989663.93	0.0090	0.0071	
Saturn	50049-09-18 17:17	G	20001342.93	20001343.22	20001343.51	0.0299	0.0043	
Uranus	50052-06-19 04:48	G	20002347.41	20002347.70	20002348.00	0.0142	0.0043	
Saturn	50063-09-15 18:29	G	20006452.98	20006453.27	20006453.56	0.0263	0.0030	
Neptune	50099-06-07 06:58	G	20019501.48	20019501.79	20019502.10	0.0088	0.0007	
Jupiter	50115-08-19 17:02	G	20025418.12	20025418.21	20025418.33	0.0527	0.0483	
Saturn	50138-02-13 16:19	G	20033631.91	20033632.18	20033632.46	0.0299	0.0114	
Saturn	50152-02-10 18:14	G	20038741.98	20038742.26	20038742.56	0.0263	0.0034	
Jupiter	50169-02-11 01:26	G	20044952.28	20044952.56	20044952.84	0.0498	0.0024	
Uranus	50179-07-09 20:53	G	20048753.20	20048753.37	20048753.60	0.0136	0.0105	
Neptune	50181-05-12 04:05	G	20049425.38	20049425.67	20049425.99	0.0090	0.0023	
Uranus	50219-11-08 09:50	G	20063483.66	20063483.91	20063484.19	0.0143	0.0072	
Saturn	50226-07-09 23:02	G	20065919.19	20065919.46	20065919.73	0.0299	0.0124	
Jupiter	50234-02-08 02:38	G	20068689.43	20068689.61	20068689.78	0.0528	0.0403	
Saturn	50240-07-06 22:19	G	20071030.15	20071030.43	20071030.72	0.0262	0.0066	
Pluto	50246-03-20 01:55	G	20073112.34	20073112.58	20073112.87	0.0079	0.0044	
Neptune	50263-01-21 23:31	G	20079264.21	20079264.48	20079264.77	0.0088	0.0035	

Uranus	50264-03-04 23:46 G	20079672.23	20079672.49	20079672.76	0.0136	0.0069
Neptune	50264-12-16 08:53 G	20079958.70	20079958.87	20079959.08	0.0088	0.0069
Uranus	50304-07-05 01:41 G	20094403.45	20094403.57	20094403.72	0.0142	0.0128
Saturn	50314-12-03 10:48 G	20098206.70	20098206.95	20098207.22	0.0299	0.0139
Jupiter	50323-05-10 09:07 G	20101286.73	20101286.88	20101287.06	0.0498	0.0400
Saturn	50328-12-01 04:34 G	20103318.43	20103318.69	20103318.96	0.0263	0.0104
Neptune	50344-12-26 02:38 G	20109187.30	20109187.61	20109187.92	0.0090	0.0025
Neptune	50346-11-21 07:41 G	20109882.79	20109882.82	20109882.85	0.0090	0.0089
Jupiter	50388-05-06 06:58 G	20125024.53	20125024.79	20125025.05	0.0529	0.0159
Saturn	50403-04-27 06:43 G	20130493.52	20130493.78	20130494.06	0.0298	0.0128
Pluto	50405-04-06 03:50 G	20131203.35	20131203.66	20131203.98	0.0065	0.0002
Saturn	50417-04-25 19:26 G	20135606.05	20135606.31	20135606.57	0.0263	0.0115
Neptune	50426-09-06 18:43 G	20139027.14	20139027.28	20139027.44	0.0088	0.0076
Neptune	50428-08-01 02:24 G	20139721.32	20139721.60	20139721.91	0.0088	0.0028
Uranus	50431-07-24 12:43 G	20140808.74	20140809.03	20140809.34	0.0136	0.0031
Jupiter	50441-10-29 14:38 G	20144558.89	20144559.11	20144559.33	0.0497	0.0302
Uranus	50471-11-21 12:14 G	20155538.71	20155539.01	20155539.32	0.0143	0.0017
Saturn	50491-09-20 01:55 G	20162781.33	20162781.58	20162781.84	0.0298	0.0152
Saturn	50505-09-20 01:55 G	20167894.35	20167894.58	20167894.83	0.0264	0.0151
Neptune	50508-08-09 23:46 G	20168949.35	20168949.49	20168949.70	0.0090	0.0075
Neptune	50510-07-06 07:41 G	20169644.56	20169644.82	20169645.13	0.0090	0.0043
Saturn	50580-02-14 11:02 G	20195069.73	20195069.96	20195070.18	0.0297	0.0194
Neptune	50592-03-16 23:02 G	20199484.16	20199484.46	20199484.77	0.0088	0.0014
Saturn	50594-02-13 05:02 G	20200182.49	20200182.71	20200182.92	0.0264	0.0176
Jupiter	50596-01-25 01:41 G	20200893.30	20200893.57	20200893.84	0.0497	0.0136
Uranus	50598-12-11 23:46 G	20201945.43	20201945.49	20201945.57	0.0135	0.0132
Pluto	50651-08-28 19:12 G	20221197.23	20221197.30	20221197.45	0.0065	0.0061
Saturn	50652-05-23 21:36 G	20221466.31	20221466.40	20221466.52	0.0266	0.0248
Jupiter	50661-01-20 13:55 G	20224629.87	20224630.08	20224630.31	0.0530	0.0314
Saturn	50668-07-11 19:26 G	20227359.21	20227359.31	20227359.41	0.0298	0.0279

Neptune	50674-02-18 08:24 G	20229406.53	20229406.85	20229407.17	0.0090	0.0006
Saturn	50682-07-11 07:26 G	20232471.70	20232471.81	20232471.94	0.0264	0.0239
Uranus	50683-08-08 03:50 G	20232864.37	20232864.66	20232864.95	0.0136	0.0044
Uranus	50723-12-06 20:53 G	20247594.09	20247594.37	20247594.66	0.0143	0.0050
Saturn	50740-10-19 07:55 G	20253755.64	20253755.83	20253756.06	0.0266	0.0177
Jupiter	50750-04-21 13:55 G	20257226.99	20257227.08	20257227.17	0.0497	0.0469
Neptune	50755-11-01 22:34 G	20259247.21	20259247.44	20259247.69	0.0088	0.0054
Neptune	50757-09-26 04:05 G	20259941.43	20259941.67	20259941.93	0.0088	0.0050
Saturn	50815-03-13 19:41 G	20280929.14	20280929.32	20280929.53	0.0296	0.0223
Jupiter	50815-04-16 16:34 G	20280962.91	20280963.19	20280963.46	0.0530	0.0007
Saturn	50829-03-15 20:38 G	20286045.11	20286045.36	20286045.64	0.0265	0.0101
Neptune	50837-10-03 06:14 G	20289168.53	20289168.76	20289169.04	0.0090	0.0054
Neptune	50839-08-29 16:19 G	20289864.00	20289864.18	20289864.44	0.0090	0.0065
Uranus	50850-12-26 08:38 G	20294000.59	20294000.86	20294001.14	0.0135	0.0064
Jupiter	50868-10-09 19:41 G	20300498.13	20300498.32	20300498.52	0.0496	0.0351
Uranus	50891-04-24 16:05 G	20308729.94	20308730.17	20308730.42	0.0143	0.0085
Saturn	50903-08-09 16:19 G	20313218.90	20313219.18	20313219.46	0.0297	0.0114
Saturn	50917-08-11 14:38 G	20318334.83	20318335.11	20318335.40	0.0265	0.0016
Neptune	50921-05-12 04:48 G	20319704.41	20319704.70	20319705.02	0.0088	0.0011
Uranus	50935-08-22 10:05 G	20324919.75	20324919.92	20324920.13	0.0136	0.0108
Jupiter	50969-07-11 01:41 G	20337296.36	20337296.57	20337296.78	0.0529	0.0343
Uranus	50975-12-19 21:50 G	20339649.20	20339649.41	20339649.62	0.0143	0.0102
Pluto	50987-04-17 18:14 G	20343786.07	20343786.26	20343786.49	0.0079	0.0059
Saturn	50992-01-04 13:41 G	20345508.77	20345509.07	20345509.37	0.0296	0.0007

52ND MILLENNIUM CE

This is a list of transits of Mars in the 52nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	51003-04-14 18:58	G	20349625.99	20349626.29	20349626.62	0.0090	0.0019	
Saturn	51006-01-07 03:07	G	20350624.35	20350624.63	20350624.91	0.0265	0.0066	
Jupiter	51023-01-05 03:22	G	20356831.37	20356831.64	20356831.91	0.0496	0.0054	
Saturn	51080-05-30 15:50	G	20377796.87	20377797.16	20377797.46	0.0297	0.0037	
Neptune	51084-12-26 05:31	G	20379467.46	20379467.73	20379468.03	0.0088	0.0030	
Neptune	51086-11-20 10:48	G	20380161.83	20380161.95	20380162.14	0.0088	0.0076	
Saturn	51094-06-02 21:36	G	20382913.14	20382913.40	20382913.66	0.0265	0.0118	
Uranus	51103-01-10 12:00	G	20386055.69	20386056.00	20386056.32	0.0136	0.0004	
Uranus	51143-05-09 09:07	G	20400784.60	20400784.88	20400785.18	0.0143	0.0045	
Pluto	51146-05-05 06:58	G	20401876.71	20401876.79	20401876.88	0.0066	0.0063	
Neptune	51166-11-27 20:53	G	20409388.08	20409388.37	20409388.69	0.0090	0.0029	
Saturn	51168-10-24 18:14	G	20410084.98	20410085.26	20410085.56	0.0296	0.0077	
Jupiter	51177-04-01 02:38	G	20413165.41	20413165.61	20413165.82	0.0496	0.0319	
Saturn	51182-10-28 11:31	G	20415201.76	20415201.98	20415202.21	0.0265	0.0166	
Pluto	51233-09-08 18:58	G	20433779.98	20433780.29	20433780.61	0.0079	0.0007	
Jupiter	51242-03-27 12:14	G	20436901.74	20436902.01	20436902.28	0.0531	0.0107	
Neptune	51248-08-11 10:05	G	20439230.76	20439230.92	20439231.13	0.0088	0.0070	
Neptune	51250-07-06 13:26	G	20439924.79	20439925.06	20439925.35	0.0088	0.0036	
Saturn	51257-03-18 14:53	G	20442371.83	20442372.12	20442372.41	0.0296	0.0067	
Uranus	51270-05-29 09:07	G	20447191.75	20447191.88	20447192.05	0.0135	0.0119	
Saturn	51271-03-23 04:05	G	20447489.46	20447489.67	20447489.88	0.0265	0.0178	
Jupiter	51295-09-21 16:19	G	20456438.00	20456438.18	20456438.37	0.0495	0.0359	
Neptune	51330-07-12 22:19	G	20469150.28	20469150.43	20469150.64	0.0090	0.0075	
Neptune	51332-06-07 12:00	G	20469845.73	20469846.00	20469846.29	0.0090	0.0046	
Saturn	51345-08-12 01:55	G	20474659.29	20474659.58	20474659.87	0.0296	0.0080	

Uranus	51355-01-23 08:24 G	20478110.58	20478110.85	20478111.15	0.0136	0.0052
Saturn	51359-08-17 06:00 G	20479777.59	20479777.75	20479777.94	0.0266	0.0208
Pluto	51392-09-25 14:38 G	20491870.87	20491871.11	20491871.39	0.0066	0.0037
Uranus	51395-05-22 16:19 G	20492839.89	20492840.18	20492840.49	0.0143	0.0019
Jupiter	51396-06-22 12:29 G	20493236.88	20493237.02	20493237.16	0.0530	0.0451
Neptune	51414-02-20 18:58 G	20499687.98	20499688.29	20499688.59	0.0088	0.0004
Saturn	51417-11-24 12:00 G	20501060.89	20501061.00	20501061.13	0.0268	0.0242
Saturn	51434-01-05 15:07 G	20506946.85	20506947.13	20506947.42	0.0295	0.0093
Saturn	51448-01-10 23:17 G	20512065.32	20512065.47	20512065.64	0.0266	0.0218
Jupiter	51449-12-18 10:05 G	20512772.66	20512772.92	20512773.19	0.0496	0.0105
Pluto	51480-02-01 08:10 G	20523774.55	20523774.84	20523775.16	0.0079	0.0021
Neptune	51496-01-21 15:36 G	20529607.82	20529608.15	20529608.48	0.0090	0.0001
Saturn	51506-04-20 11:17 G	20533348.83	20533348.97	20533349.14	0.0268	0.0224
Jupiter	51514-12-13 00:58 G	20536507.52	20536507.54	20536507.58	0.0532	0.0529
Saturn	51522-06-02 03:50 G	20539235.40	20539235.66	20539235.92	0.0295	0.0148
Uranus	51522-06-13 00:43 G	20539246.27	20539246.53	20539246.80	0.0135	0.0071
Saturn	51536-06-06 15:50 G	20544354.14	20544354.16	20544354.19	0.0266	0.0265
Uranus	51562-10-10 02:53 G	20553975.52	20553975.62	20553975.74	0.0143	0.0133
Neptune	51577-10-07 00:14 G	20559451.27	20559451.51	20559451.79	0.0088	0.0043
Neptune	51579-09-01 03:22 G	20560145.43	20560145.64	20560145.85	0.0088	0.0063
Saturn	51594-09-14 10:34 G	20565637.74	20565637.94	20565638.18	0.0268	0.0170
Jupiter	51604-03-14 08:10 G	20569106.78	20569106.84	20569106.91	0.0495	0.0479
Uranus	51607-02-05 23:31 G	20570165.28	20570165.48	20570165.70	0.0136	0.0099
Saturn	51610-10-27 17:02 G	20571525.03	20571525.21	20571525.39	0.0294	0.0235
Pluto	51639-02-18 05:02 G	20581865.44	20581865.71	20581866.03	0.0066	0.0025
Uranus	51647-06-05 02:53 G	20584894.35	20584894.62	20584894.91	0.0143	0.0050
Neptune	51659-09-05 17:31 G	20589369.96	20589370.23	20589370.53	0.0090	0.0045
Neptune	51661-08-01 07:55 G	20590065.70	20590065.83	20590066.02	0.0090	0.0078
Jupiter	51669-03-07 12:58 G	20592840.77	20592841.04	20592841.30	0.0532	0.0146
Saturn	51683-02-08 13:12 G	20597926.80	20597927.05	20597927.32	0.0268	0.0108

Jupiter	51722-09-04 02:53 G	20612378.40	20612378.62	20612378.84	0.0494	0.0295
Pluto	51726-06-26 03:22 G	20613769.38	20613769.64	20613769.96	0.0079	0.0030
Neptune	51741-05-23 08:24 G	20619214.78	20619214.85	20619215.00	0.0088	0.0082
Neptune	51743-04-17 09:50 G	20619908.62	20619908.91	20619909.20	0.0088	0.0024
Saturn	51757-06-27 23:46 G	20625094.39	20625094.49	20625094.62	0.0293	0.0271
Saturn	51771-07-07 06:14 G	20630216.47	20630216.76	20630217.04	0.0268	0.0024
Uranus	51774-06-25 13:12 G	20631300.75	20631301.05	20631301.37	0.0136	0.0024
Uranus	51814-10-23 22:34 G	20646030.21	20646030.44	20646030.68	0.0143	0.0088
Jupiter	51823-06-02 16:19 G	20649173.92	20649174.18	20649174.45	0.0532	0.0184
Neptune	51825-03-17 12:00 G	20649827.71	20649828.00	20649828.32	0.0090	0.0033
Saturn	51845-11-24 11:17 G	20657384.71	20657384.97	20657385.24	0.0293	0.0143
Saturn	51859-12-02 22:05 G	20662506.15	20662506.42	20662506.71	0.0267	0.0063
Jupiter	51876-11-28 05:31 G	20668711.46	20668711.73	20668712.00	0.0495	0.0028
Pluto	51885-07-12 23:02 G	20671860.17	20671860.46	20671860.78	0.0066	0.0016
Uranus	51899-06-19 05:31 G	20676949.55	20676949.73	20676949.95	0.0142	0.0106
Neptune	51906-12-02 18:00 G	20679671.97	20679672.25	20679672.56	0.0088	0.0015
Saturn	51934-04-21 08:10 G	20689673.55	20689673.84	20689674.14	0.0294	0.0070
Saturn	51948-04-29 04:48 G	20694795.46	20694795.70	20694795.95	0.0267	0.0132
Pluto	51972-11-18 05:46 G	20703764.46	20703764.74	20703765.06	0.0079	0.0023
Neptune	51988-10-30 12:29 G	20709589.70	20709590.02	20709590.35	0.0090	0.0014

53RD MILLENNIUM CE

This is a list of transits of Mars in the 53rd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Saturn	52022-09-15 06:14 G	20721962.46	20721962.76	20721963.07	0.0293	0.0002
Uranus	52026-07-08 22:19 G	20723355.12	20723355.43	20723355.75	0.0135	0.0020
Jupiter	52031-02-22 18:29 G	20725045.05	20725045.27	20725045.49	0.0494	0.0291
Saturn	52036-09-23 06:29 G	20727084.60	20727084.77	20727084.97	0.0267	0.0199
Uranus	52066-11-05 22:19 G	20738085.16	20738085.43	20738085.73	0.0143	0.0040
Neptune	52070-07-18 02:10 G	20739435.37	20739435.59	20739435.85	0.0088	0.0053
Neptune	52072-06-11 03:22 G	20740129.42	20740129.64	20740129.90	0.0088	0.0054
Saturn	52095-01-01 00:29 G	20748368.39	20748368.52	20748368.66	0.0269	0.0237
Jupiter	52096-02-14 14:38 G	20748777.95	20748778.11	20748778.27	0.0533	0.0434
Saturn	52111-02-08 12:43 G	20754249.73	20754250.03	20754250.34	0.0293	0.0012
Saturn	52125-02-17 09:50 G	20759372.76	20759372.91	20759373.06	0.0267	0.0227
Pluto	52131-12-05 20:38 G	20761855.08	20761855.36	20761855.69	0.0066	0.0021
Jupiter	52149-08-15 11:17 G	20768317.81	20768317.97	20768318.14	0.0493	0.0388
Neptune	52152-06-14 13:26 G	20769351.84	20769352.06	20769352.32	0.0090	0.0061
Neptune	52154-05-11 07:26 G	20770047.60	20770047.81	20770048.04	0.0090	0.0065
Saturn	52183-05-27 18:58 G	20780656.15	20780656.29	20780656.45	0.0269	0.0226
Uranus	52193-11-25 06:14 G	20784490.59	20784490.76	20784490.96	0.0135	0.0110
Saturn	52199-07-04 03:22 G	20786537.34	20786537.64	20786537.95	0.0293	0.0034
Saturn	52213-07-14 16:05 G	20791661.13	20791661.17	20791661.24	0.0268	0.0263
Pluto	52219-04-13 15:07 G	20793759.82	20793760.13	20793760.45	0.0078	0.0002
Neptune	52236-01-27 11:17 G	20799892.69	20799892.97	20799893.28	0.0088	0.0015
Jupiter	52250-05-13 15:07 G	20805112.86	20805113.13	20805113.40	0.0532	0.0142
Saturn	52271-10-21 22:05 G	20812944.24	20812944.42	20812944.62	0.0270	0.0200
Uranus	52278-07-22 05:17 G	20815409.46	20815409.72	20815410.03	0.0136	0.0062
Saturn	52287-11-27 07:26 G	20818824.50	20818824.81	20818825.11	0.0292	0.0033
Saturn	52301-12-08 05:17 G	20823948.69	20823948.72	20823948.77	0.0268	0.0265
Jupiter	52303-11-12 06:00 G	20824652.49	20824652.75	20824653.02	0.0494	0.0073
Neptune	52317-12-25 08:38 G	20829809.54	20829809.86	20829810.18	0.0090	0.0018
Uranus	52318-11-20 14:24 G	20830139.80	20830140.10	20830140.40	0.0143	0.0002

Saturn	52360-03-16 12:29 G	20845231.84	20845232.02	20845232.22	0.0271	0.0197
Saturn	52376-04-22 05:46 G	20851112.45	20851112.74	20851113.05	0.0292	0.0066
Pluto	52378-04-29 21:07 G	20851850.12	20851850.38	20851850.70	0.0066	0.0026
Neptune	52399-09-12 22:34 G	20859656.16	20859656.44	20859656.73	0.0088	0.0025
Neptune	52401-08-06 19:55 G	20860350.26	20860350.33	20860350.46	0.0088	0.0083
Uranus	52445-12-08 12:14 G	20876544.75	20876545.01	20876545.30	0.0136	0.0069
Saturn	52448-08-10 00:29 G	20877520.30	20877520.52	20877520.76	0.0271	0.0160
Jupiter	52458-02-05 12:43 G	20880986.98	20880987.03	20880987.09	0.0493	0.0482
Saturn	52464-09-15 23:46 G	20883401.23	20883401.49	20883401.78	0.0291	0.0122
Pluto	52465-09-05 02:38 G	20883755.32	20883755.61	20883755.92	0.0078	0.0026
Neptune	52481-08-08 06:43 G	20889571.48	20889571.78	20889572.11	0.0090	0.0030
Uranus	52486-04-08 18:58 G	20891276.20	20891276.29	20891276.43	0.0143	0.0132
Jupiter	52523-01-27 00:29 G	20904717.33	20904717.52	20904717.71	0.0534	0.0394
Uranus	52530-08-04 13:26 G	20907463.87	20907464.06	20907464.28	0.0136	0.0104
Saturn	52537-01-04 14:10 G	20909808.85	20909809.09	20909809.36	0.0271	0.0119
Saturn	52553-02-11 07:26 G	20915690.61	20915690.81	20915691.03	0.0292	0.0209
Neptune	52563-04-29 09:07 G	20919419.69	20919419.88	20919420.09	0.0088	0.0065
Neptune	52565-03-23 06:43 G	20920113.54	20920113.78	20920114.07	0.0088	0.0043
Uranus	52570-12-03 22:34 G	20922195.17	20922195.44	20922195.72	0.0143	0.0056
Jupiter	52576-07-28 23:02 G	20924259.23	20924259.46	20924259.70	0.0492	0.0235
Pluto	52624-09-22 03:50 G	20941845.47	20941845.66	20941845.93	0.0066	0.0046
Saturn	52625-06-02 02:24 G	20942098.32	20942098.60	20942098.88	0.0271	0.0043
Neptune	52645-03-24 04:05 G	20949333.55	20949333.67	20949333.87	0.0090	0.0079
Neptune	52647-02-18 02:10 G	20950029.32	20950029.59	20950029.86	0.0090	0.0050
Jupiter	52677-04-22 07:55 G	20961050.55	20961050.83	20961051.11	0.0534	0.0031
Uranus	52697-12-21 21:36 G	20968599.10	20968599.40	20968599.73	0.0135	0.0026
Saturn	52699-10-14 00:00 G	20969260.42	20969260.50	20969260.61	0.0289	0.0275
Pluto	52712-01-30 21:50 G	20973751.30	20973751.41	20973751.59	0.0078	0.0069
Saturn	52713-10-28 17:31 G	20974387.96	20974388.23	20974388.51	0.0270	0.0042
Neptune	52728-11-07 16:19 G	20979876.89	20979877.18	20979877.48	0.0088	0.0002

Jupiter	52730-10-24 03:50 G	20980592.39	20980592.66	20980592.93	0.0493	0.0033
Uranus	52738-04-23 16:48 G	20983330.99	20983331.20	20983331.44	0.0143	0.0092
Saturn	52788-03-10 11:17 G	21001549.74	21001549.97	21001550.22	0.0290	0.0180
Saturn	52802-03-25 08:53 G	21006677.63	21006677.87	21006678.12	0.0270	0.0125
Neptune	52810-10-02 22:34 G	21009791.11	21009791.44	21009791.78	0.0090	0.0001
Uranus	52822-12-17 18:14 G	21014250.05	21014250.26	21014250.49	0.0143	0.0096
Jupiter	52831-07-17 15:50 G	21017383.94	21017384.16	21017384.38	0.0534	0.0335
Pluto	52871-02-14 11:31 G	21031840.96	21031840.98	21031841.05	0.0066	0.0066
Saturn	52876-08-05 05:46 G	21033839.45	21033839.74	21033840.05	0.0290	0.0079
Jupiter	52885-01-16 10:48 G	21036925.74	21036925.95	21036926.16	0.0493	0.0311
Saturn	52890-08-19 20:24 G	21038967.19	21038967.35	21038967.55	0.0270	0.0207
Neptune	52892-06-23 02:10 G	21039640.34	21039640.59	21039640.87	0.0088	0.0040
Neptune	52894-05-17 22:19 G	21040334.28	21040334.43	21040334.65	0.0088	0.0069
Saturn	52948-11-27 22:05 G	21060251.29	21060251.42	21060251.58	0.0272	0.0231
Uranus	52950-01-04 10:05 G	21060653.61	21060653.92	21060654.24	0.0135	0.0026
Saturn	52964-12-30 04:19 G	21066127.37	21066127.68	21066127.98	0.0290	0.0042
Neptune	52974-05-17 16:19 G	21069552.93	21069553.18	21069553.48	0.0090	0.0051
Neptune	52976-04-12 16:05 G	21070249.03	21070249.17	21070249.32	0.0090	0.0080
Saturn	52979-01-14 10:48 G	21071255.86	21071255.95	21071256.07	0.0270	0.0250
Uranus	52990-05-07 03:36 G	21075386.37	21075386.65	21075386.95	0.0143	0.0031

54TH MILLENNIUM CE

This is a list of transits of Mars in the 54th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Jupiter	53003-07-11 05:02 G	21080198.55	21080198.71	21080198.89	0.0492	0.0380
Saturn	53037-04-24 02:24 G	21092539.43	21092539.60	21092539.80	0.0272	0.0206
Saturn	53053-05-26 06:29 G	21098415.46	21098415.77	21098416.08	0.0290	0.0003
Neptune	53056-02-08 12:29 G	21099403.93	21099404.02	21099404.14	0.0088	0.0082
Neptune	53058-01-02 07:41 G	21100097.55	21100097.82	21100098.12	0.0088	0.0026
Jupiter	53104-04-01 15:36 G	21116987.90	21116988.15	21116988.40	0.0534	0.0255
Uranus	53117-05-24 20:24 G	21121789.15	21121789.35	21121789.59	0.0135	0.0098
Saturn	53125-09-18 10:19 G	21124827.72	21124827.93	21124828.15	0.0273	0.0173
Neptune	53139-11-27 08:10 G	21130010.52	21130010.84	21130011.16	0.0090	0.0028
Saturn	53141-10-19 09:22 G	21130702.58	21130702.89	21130703.20	0.0289	0.0005
Jupiter	53157-10-05 20:10 G	21136533.08	21136533.34	21136533.61	0.0492	0.0057
Uranus	53202-01-18 03:22 G	21152708.41	21152708.64	21152708.92	0.0135	0.0082
Saturn	53214-02-10 23:02 G	21157115.25	21157115.46	21157115.68	0.0273	0.0173
Neptune	53221-08-18 15:50 G	21159860.87	21159861.16	21159861.46	0.0088	0.0017
Saturn	53230-03-14 00:29 G	21162990.21	21162990.52	21162990.83	0.0289	0.0020
Uranus	53242-05-21 14:38 G	21167441.83	21167442.11	21167442.41	0.0143	0.0029
Jupiter	53258-06-27 22:19 G	21173323.24	21173323.43	21173323.64	0.0535	0.0380
Saturn	53302-07-08 05:02 G	21189403.48	21189403.71	21189403.95	0.0274	0.0147
Neptune	53303-07-11 21:50 G	21189772.10	21189772.41	21189772.74	0.0090	0.0026
Jupiter	53312-01-01 07:41 G	21192867.79	21192867.82	21192867.87	0.0492	0.0484
Saturn	53318-08-08 01:55 G	21195278.27	21195278.58	21195278.88	0.0288	0.0051
Uranus	53369-06-06 17:31 G	21213843.93	21213844.23	21213844.56	0.0135	0.0036
Neptune	53385-04-03 23:46 G	21219624.30	21219624.49	21219624.72	0.0088	0.0062
Neptune	53387-02-26 17:31 G	21220318.01	21220318.23	21220318.51	0.0088	0.0048
Saturn	53390-12-01 06:00 G	21221691.50	21221691.75	21221692.00	0.0274	0.0126
Saturn	53407-01-02 16:05 G	21227566.89	21227567.17	21227567.46	0.0289	0.0112
Uranus	53409-10-09 18:00 G	21228578.07	21228578.25	21228578.45	0.0143	0.0108
Jupiter	53430-06-24 08:38 G	21236140.62	21236140.86	21236141.11	0.0491	0.0179
Neptune	53467-02-23 06:29 G	21249533.68	21249533.77	21249533.94	0.0090	0.0083

Neptune	53469-01-19 09:50 G	21250229.66	21250229.91	21250230.20	0.0090	0.0052
Saturn	53479-04-28 06:29 G	21253980.50	21253980.77	21253981.04	0.0274	0.0070
Uranus	53494-06-05 01:12 G	21259497.34	21259497.55	21259497.79	0.0143	0.0091
Saturn	53495-05-30 12:43 G	21259856.83	21259857.03	21259857.25	0.0288	0.0211
Jupiter	53531-03-12 21:07 G	21272926.16	21272926.38	21272926.61	0.0536	0.0326
Neptune	53550-10-14 01:26 G	21280081.27	21280081.56	21280081.86	0.0088	0.0002
Saturn	53567-09-23 11:17 G	21286269.69	21286269.97	21286270.25	0.0273	0.0002
Jupiter	53584-09-17 18:29 G	21292474.01	21292474.27	21292474.53	0.0491	0.0113
Pluto	53608-06-05 15:50 G	21301135.94	21301136.16	21301136.43	0.0066	0.0043
Uranus	53621-06-20 17:17 G	21305898.91	21305899.22	21305899.54	0.0135	0.0032
Neptune	53632-09-02 17:31 G	21309990.90	21309991.23	21309991.57	0.0090	0.0006
Saturn	53656-02-18 03:07 G	21318559.37	21318559.63	21318559.90	0.0273	0.0085
Uranus	53661-10-23 17:17 G	21320633.94	21320634.22	21320634.51	0.0143	0.0030
Jupiter	53685-06-05 00:00 G	21329259.21	21329259.50	21329259.79	0.0536	0.0031
Pluto	53695-10-14 12:00 G	21333042.71	21333043.00	21333043.32	0.0078	0.0017
Neptune	53714-05-30 07:55 G	21339844.60	21339844.83	21339845.11	0.0088	0.0045
Neptune	53716-04-23 01:26 G	21340538.39	21340538.56	21340538.79	0.0088	0.0066
Saturn	53730-06-26 12:43 G	21345715.78	21345716.03	21345716.28	0.0287	0.0168
Jupiter	53738-12-12 22:19 G	21348807.26	21348807.43	21348807.60	0.0491	0.0372
Saturn	53744-07-15 21:22 G	21350849.18	21350849.39	21350849.60	0.0273	0.0178
Uranus	53788-11-07 11:17 G	21367034.73	21367034.97	21367035.25	0.0135	0.0079
Neptune	53796-04-16 23:17 G	21369752.24	21369752.47	21369752.71	0.0090	0.0064
Neptune	53798-03-14 02:24 G	21370448.42	21370448.60	21370448.82	0.0090	0.0071
Saturn	53802-10-25 06:14 G	21372133.68	21372133.76	21372133.86	0.0275	0.0259
Saturn	53818-11-21 03:50 G	21378004.38	21378004.66	21378004.96	0.0287	0.0105
Saturn	53832-12-11 00:29 G	21383138.40	21383138.52	21383138.65	0.0272	0.0243
Jupiter	53839-08-31 06:58 G	21385592.61	21385592.79	21385592.98	0.0535	0.0409
Pluto	53854-10-30 09:07 G	21391131.56	21391131.88	21391132.21	0.0066	0.0002
Jupiter	53857-06-04 16:34 G	21392080.00	21392080.19	21392080.38	0.0491	0.0337
Uranus	53873-07-05 00:43 G	21397954.35	21397954.53	21397954.73	0.0135	0.0109

Neptune	53879-12-08 07:12 G	21400301.52	21400301.80	21400302.10	0.0088	0.0019
Saturn	53891-03-21 00:14 G	21404422.34	21404422.51	21404422.69	0.0275	0.0212
Saturn	53907-04-17 23:31 G	21410293.18	21410293.48	21410293.80	0.0287	0.0038
Uranus	53913-11-08 03:50 G	21412689.38	21412689.66	21412689.95	0.0144	0.0030
Pluto	53942-03-10 21:36 G	21423039.26	21423039.40	21423039.61	0.0078	0.0064
Neptune	53961-10-27 06:29 G	21430209.43	21430209.77	21430210.10	0.0090	0.0011
Saturn	53979-08-15 17:31 G	21436711.02	21436711.23	21436711.46	0.0275	0.0164
Saturn	53995-09-10 11:02 G	21442580.65	21442580.96	21442581.27	0.0286	0.0023

55TH MILLENNIUM CE

This is a list of transits of Mars in the 55th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Jupiter	54011-08-30 23:17 G	21448414.21	21448414.47	21448414.73	0.0491	0.0058		
Uranus	54040-11-21 23:17 G	21459090.15	21459090.47	21459090.80	0.0135	0.0006		
Neptune	54043-07-24 13:55 G	21460064.82	21460065.08	21460065.37	0.0088	0.0029		
Neptune	54045-06-17 06:29 G	21460758.68	21460758.77	21460758.88	0.0088	0.0082		
Saturn	54068-01-08 09:07 G	21468998.67	21468998.88	21468999.12	0.0276	0.0161		
Uranus	54081-03-27 19:55 G	21473826.11	21473826.33	21473826.56	0.0144	0.0092		
Saturn	54084-02-03 03:22 G	21474868.33	21474868.64	21474868.96	0.0286	0.0004		
Pluto	54101-03-25 04:19 G	21481127.52	21481127.68	21481127.93	0.0067	0.0052		
Jupiter	54112-05-15 17:46 G	21485196.96	21485197.24	21485197.53	0.0537	0.0089		
Neptune	54125-06-10 07:26 G	21489970.55	21489970.81	21489971.11	0.0090	0.0051		
Neptune	54127-05-07 12:29 G	21490666.97	21490667.02	21490667.15	0.0090	0.0087		

Saturn	54156-06-03 13:26 G	21501286.83	21501287.06	21501287.30	0.0276	0.0139
Uranus	54165-11-22 03:22 G	21504745.46	21504745.64	21504745.83	0.0144	0.0109
Jupiter	54165-11-25 11:17 G	21504748.93	21504748.97	21504749.02	0.0490	0.0481
Saturn	54172-06-28 18:29 G	21507155.96	21507156.27	21507156.58	0.0285	0.0018
Neptune	54207-03-10 22:34 G	21519828.32	21519828.44	21519828.62	0.0088	0.0076
Uranus	54208-04-11 22:19 G	21520226.22	21520226.43	21520226.67	0.0134	0.0098
Neptune	54209-02-01 13:26 G	21520521.81	21520522.06	21520522.35	0.0088	0.0035
Saturn	54244-10-28 04:19 G	21533574.45	21533574.68	21533574.93	0.0276	0.0135
Saturn	54260-11-22 18:29 G	21539443.97	21539444.27	21539444.58	0.0285	0.0056
Jupiter	54266-08-11 12:43 G	21541531.91	21541532.03	21541532.14	0.0537	0.0489
Jupiter	54284-05-19 00:14 G	21548022.26	21548022.51	21548022.76	0.0490	0.0139
Neptune	54290-12-19 13:55 G	21550427.77	21550428.08	21550428.42	0.0090	0.0025
Uranus	54292-12-06 12:58 G	21551145.83	21551146.04	21551146.31	0.0134	0.0093
Saturn	54333-03-24 19:26 G	21565863.05	21565863.31	21565863.57	0.0276	0.0094
Uranus	54333-04-12 17:46 G	21565881.96	21565882.24	21565882.54	0.0144	0.0019
Saturn	54349-04-19 22:05 G	21571733.15	21571733.42	21571733.71	0.0285	0.0130
Neptune	54372-09-17 22:05 G	21580285.14	21580285.42	21580285.72	0.0088	0.0012
Saturn	54421-08-18 12:43 G	21598151.75	21598152.03	21598152.30	0.0276	0.0043
Saturn	54437-09-14 02:24 G	21604022.40	21604022.60	21604022.81	0.0285	0.0213
Jupiter	54438-08-13 18:29 G	21604356.03	21604356.27	21604356.51	0.0490	0.0189
Neptune	54454-08-02 14:24 G	21610188.79	21610189.10	21610189.41	0.0090	0.0038
Uranus	54460-04-25 12:58 G	21612281.72	21612282.04	21612282.37	0.0134	0.0011
Saturn	54510-01-14 00:00 G	21630441.22	21630441.50	21630441.77	0.0276	0.0034
Neptune	54536-05-04 06:43 G	21640048.59	21640048.78	21640049.02	0.0088	0.0060
Neptune	54538-03-28 21:50 G	21640742.19	21640742.41	21640742.66	0.0088	0.0052
Jupiter	54539-04-24 08:24 G	21641133.63	21641133.85	21641134.07	0.0537	0.0350
Saturn	54584-05-15 14:24 G	21657591.98	21657592.10	21657592.25	0.0283	0.0255
Uranus	54585-04-26 07:55 G	21657937.56	21657937.83	21657938.11	0.0144	0.0044
Jupiter	54592-11-07 01:55 G	21660689.50	21660689.58	21660689.68	0.0490	0.0458
Saturn	54598-06-10 17:17 G	21662730.98	21662731.22	21662731.47	0.0276	0.0126

Neptune 54620-02-11 22:48 G 21670646.17 21670646.45 21670646.78 0.0090 0.0040
 Uranus 54627-09-14 09:07 G 21673417.75 21673417.88 21673418.07 0.0134 0.0117
 Saturn 54672-10-10 17:46 G 21689881.01 21689881.24 21689881.50 0.0284 0.0175
 Pluto 54679-07-01 10:34 G 21692335.65 21692335.94 21692336.23 0.0078 0.0027
 Saturn 54686-11-06 03:36 G 21695020.48 21695020.65 21695020.85 0.0275 0.0203
 Jupiter 54693-07-18 06:14 G 21697466.47 21697466.76 21697467.05 0.0537 0.0011
 Neptune 54701-11-13 07:55 G 21700505.54 21700505.83 21700506.12 0.0088 0.0005
 Jupiter 54711-05-01 22:19 G 21703962.21 21703962.43 21703962.65 0.0490 0.0261
 Uranus 54712-05-10 23:46 G 21704337.22 21704337.49 21704337.77 0.0134 0.0072
 Saturn 54745-02-14 08:38 G 21716304.77 21716304.86 21716304.97 0.0278 0.0257
 Uranus 54752-09-15 01:55 G 21719074.36 21719074.58 21719074.84 0.0144 0.0080
 Saturn 54761-03-08 06:43 G 21722170.49 21722170.78 21722171.09 0.0284 0.0082
 Neptune 54783-09-26 00:29 G 21730407.20 21730407.52 21730407.85 0.0090 0.0023
 Saturn 54833-07-11 13:55 G 21748593.89 21748594.08 21748594.29 0.0278 0.0189
 Uranus 54837-05-11 04:19 G 21749993.53 21749993.68 21749993.88 0.0144 0.0114
 Pluto 54838-07-14 21:22 G 21750423.10 21750423.39 21750423.68 0.0067 0.0029
 Saturn 54849-08-01 07:12 G 21754458.49 21754458.80 21754459.11 0.0283 0.0047
 Neptune 54865-06-28 19:12 G 21760269.05 21760269.30 21760269.56 0.0088 0.0042
 Jupiter 54865-07-25 21:07 G 21760296.13 21760296.38 21760296.64 0.0490 0.0089
 Neptune 54867-05-23 09:22 G 21760962.73 21760962.89 21760963.08 0.0088 0.0070
 Uranus 54879-09-27 16:05 G 21765472.86 21765473.17 21765473.49 0.0134 0.0040
 Saturn 54921-12-05 15:22 G 21780881.94 21780882.14 21780882.37 0.0278 0.0171
 Pluto 54925-11-24 22:34 G 21782332.23 21782332.44 21782332.65 0.0077 0.0057
 Saturn 54937-12-26 09:36 G 21786746.59 21786746.90 21786747.22 0.0284 0.0007
 Neptune 54947-05-10 03:36 G 21790168.57 21790168.65 21790168.81 0.0090 0.0084
 Neptune 54949-04-05 12:43 G 21790864.80 21790865.03 21790865.31 0.0090 0.0058

56TH MILLENNIUM CE

This is a list of transits of Mars in the 56th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	55004-09-29 09:22	G	21811129.62	21811129.89	21811130.18	0.0144	0.0030	
Saturn	55010-05-02 01:26	G	21813170.33	21813170.56	21813170.80	0.0279	0.0140	
Jupiter	55019-10-22 05:31	G	21816630.73	21816630.73	21816630.75	0.0489	0.0488	
Saturn	55026-05-22 00:14	G	21819034.19	21819034.51	21819034.82	0.0282	0.0011	
Neptune	55031-01-07 20:38	G	21820726.09	21820726.36	21820726.66	0.0088	0.0024	
Pluto	55084-12-07 19:12	G	21840419.03	21840419.30	21840419.62	0.0067	0.0029	
Saturn	55098-09-24 12:58	G	21845457.81	21845458.04	21845458.28	0.0279	0.0142	
Neptune	55112-11-18 18:43	G	21850625.94	21850626.28	21850626.62	0.0090	0.0002	
Saturn	55114-10-15 18:43	G	21851321.97	21851322.28	21851322.59	0.0283	0.0040	
Jupiter	55120-06-28 12:14	G	21853404.72	21853405.01	21853405.31	0.0538	0.0039	
Uranus	55131-10-12 17:02	G	21857527.90	21857528.21	21857528.54	0.0134	0.0033	
Jupiter	55138-04-15 01:41	G	21859904.32	21859904.57	21859904.83	0.0489	0.0110	
Saturn	55187-02-18 20:10	G	21877746.10	21877746.34	21877746.60	0.0279	0.0115	
Neptune	55194-08-24 09:22	G	21880489.62	21880489.89	21880490.18	0.0088	0.0023	
Saturn	55203-03-11 07:55	G	21883610.54	21883610.83	21883611.14	0.0282	0.0091	
Uranus	55256-10-12 21:50	G	21903185.13	21903185.41	21903185.70	0.0144	0.0029	
Jupiter	55274-09-23 01:55	G	21909739.55	21909739.58	21909739.63	0.0538	0.0532	
Saturn	55275-07-15 00:00	G	21910034.24	21910034.50	21910034.76	0.0279	0.0087	
Neptune	55276-07-02 00:14	G	21910387.29	21910387.51	21910387.79	0.0090	0.0062	
Neptune	55278-05-29 10:05	G	21911083.82	21911083.92	21911084.09	0.0090	0.0082	
Saturn	55291-08-04 21:50	G	21915899.15	21915899.41	21915899.69	0.0282	0.0152	
Jupiter	55292-07-09 03:22	G	21916238.43	21916238.64	21916238.87	0.0489	0.0254	

Uranus	55299-02-27 23:31 G	21918663.25	21918663.48	21918663.75	0.0134	0.0088
Neptune	55358-04-10 00:14 G	21940253.36	21940253.51	21940253.72	0.0088	0.0069
Neptune	55360-03-03 12:29 G	21940946.80	21940947.02	21940947.30	0.0088	0.0045
Saturn	55363-12-10 01:26 G	21942323.29	21942323.56	21942323.83	0.0279	0.0025
Saturn	55379-12-31 21:36 G	21948189.29	21948189.40	21948189.53	0.0282	0.0261
Uranus	55383-10-25 08:53 G	21949582.66	21949582.87	21949583.12	0.0134	0.0096
Jupiter	55411-01-01 07:55 G	21959511.71	21959511.83	21959511.95	0.0489	0.0430
Uranus	55424-03-03 09:22 G	21964321.71	21964321.89	21964322.09	0.0144	0.0107
Neptune	55442-01-11 18:29 G	21970844.96	21970845.27	21970845.62	0.0090	0.0024
Saturn	55452-05-06 11:31 G	21974612.71	21974612.98	21974613.25	0.0279	0.0056
Uranus	55508-10-28 04:48 G	21995240.47	21995240.70	21995240.95	0.0144	0.0080
Neptune	55523-10-20 04:34 G	22000710.40	22000710.69	22000710.98	0.0088	0.0001
Saturn	55526-09-01 05:02 G	22001757.54	22001757.71	22001757.88	0.0281	0.0238
Saturn	55540-10-02 00:29 G	22006902.30	22006902.52	22006902.77	0.0278	0.0140
Jupiter	55547-06-05 08:24 G	22009339.75	22009339.85	22009339.96	0.0538	0.0499
Uranus	55551-03-14 11:02 G	22010717.65	22010717.96	22010718.29	0.0134	0.0031
Jupiter	55565-03-27 15:22 G	22015844.90	22015845.14	22015845.39	0.0489	0.0167
Neptune	55605-08-26 01:55 G	22030606.30	22030606.58	22030606.93	0.0090	0.0036
Saturn	55615-01-27 06:43 G	22034047.51	22034047.78	22034048.08	0.0281	0.0126
Saturn	55629-02-26 19:55 G	22039192.19	22039192.33	22039192.49	0.0278	0.0233
Pluto	55663-03-17 10:19 G	22051628.66	22051628.93	22051629.22	0.0077	0.0034
Uranus	55676-03-16 08:10 G	22056376.60	22056376.84	22056377.11	0.0144	0.0068
Neptune	55687-06-04 19:12 G	22060474.07	22060474.30	22060474.57	0.0088	0.0046
Saturn	55687-06-06 23:31 G	22060476.35	22060476.48	22060476.62	0.0280	0.0241
Neptune	55689-04-28 08:38 G	22061167.71	22061167.86	22061168.07	0.0088	0.0069
Jupiter	55701-08-30 09:36 G	22065673.60	22065673.90	22065674.19	0.0538	0.0009
Saturn	55703-06-23 21:22 G	22066336.08	22066336.39	22066336.70	0.0281	0.0069
Jupiter	55719-06-22 06:58 G	22072178.55	22072178.79	22072179.04	0.0489	0.0141
Uranus	55760-11-10 06:58 G	22087295.64	22087295.79	22087295.94	0.0144	0.0122
Neptune	55771-03-06 23:17 G	22091064.23	22091064.47	22091064.78	0.0090	0.0053

Saturn	55775-11-01 10:48 G	22092764.78	22092764.95	22092765.15	0.0281	0.0206
Saturn	55791-11-17 14:38 G	22098624.79	22098625.11	22098625.43	0.0281	0.0007
Uranus	55803-03-27 16:34 G	22102771.87	22102772.19	22102772.52	0.0135	0.0021
Neptune	55852-12-14 01:12 G	22120931.27	22120931.55	22120931.83	0.0088	0.0024
Jupiter	55855-11-25 14:38 G	22122008.07	22122008.11	22122008.16	0.0538	0.0532
Saturn	55864-03-28 05:02 G	22125053.49	22125053.71	22125053.94	0.0281	0.0161
Saturn	55880-04-12 09:36 G	22130912.59	22130912.90	22130913.22	0.0280	0.0018
Pluto	55909-08-11 12:43 G	22141624.75	22141625.03	22141625.32	0.0077	0.0031
Uranus	55928-03-31 19:41 G	22148432.03	22148432.32	22148432.60	0.0144	0.0014
Neptune	55934-10-20 09:22 G	22150825.55	22150825.89	22150826.24	0.0090	0.0006
Saturn	55952-08-21 18:00 G	22157341.03	22157341.25	22157341.48	0.0281	0.0161
Saturn	55968-09-06 03:50 G	22163200.35	22163200.66	22163200.98	0.0280	0.0047
Uranus	55970-08-13 10:05 G	22163906.76	22163906.92	22163907.11	0.0134	0.0115
Jupiter	55992-03-10 07:26 G	22171786.56	22171786.81	22171787.07	0.0488	0.0088

57TH MILLENNIUM CE

This is a list of transits of Mars in the 57th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Neptune	56016-07-30 19:26 G	22180695.04	22180695.31	22180695.61	0.0088	0.0021		
Saturn	56041-01-14 23:17 G	22189629.24	22189629.47	22189629.71	0.0282	0.0138		
Uranus	56055-04-08 18:00 G	22194825.97	22194826.25	22194826.54	0.0134	0.0066		
Saturn	56057-01-30 06:58 G	22195488.49	22195488.79	22195489.09	0.0279	0.0083		
Pluto	56068-08-21 07:55 G	22199709.57	22199709.83	22199710.15	0.0067	0.0031		

Neptune	56098-06-02 19:55 G	22210587.11	22210587.33	22210587.60	0.0090	0.0063
Neptune	56100-04-30 07:26 G	22211283.72	22211283.81	22211283.97	0.0090	0.0084
Jupiter	56128-08-09 05:17 G	22221611.42	22221611.72	22221612.01	0.0539	0.0050
Saturn	56129-06-10 17:46 G	22221917.01	22221917.24	22221917.49	0.0282	0.0127
Saturn	56145-06-26 08:53 G	22227776.58	22227776.87	22227777.15	0.0280	0.0126
Jupiter	56146-06-05 15:07 G	22228120.93	22228121.13	22228121.34	0.0488	0.0301
Neptune	56180-03-16 13:55 G	22240458.90	22240459.08	22240459.28	0.0088	0.0065
Uranus	56180-04-13 18:58 G	22240487.01	22240487.29	22240487.58	0.0144	0.0024
Neptune	56182-02-08 02:10 G	22241152.37	22241152.59	22241152.84	0.0088	0.0050
Saturn	56217-11-05 08:53 G	22254205.62	22254205.87	22254206.14	0.0282	0.0083
Uranus	56222-08-26 10:48 G	22255960.69	22255960.95	22255961.25	0.0134	0.0070
Saturn	56233-11-21 18:43 G	22260066.08	22260066.28	22260066.49	0.0279	0.0213
Neptune	56263-12-13 19:26 G	22271045.00	22271045.31	22271045.65	0.0090	0.0027
Jupiter	56264-11-27 05:02 G	22271394.53	22271394.71	22271394.89	0.0488	0.0348
Jupiter	56282-11-03 15:22 G	22277944.93	22277945.14	22277945.35	0.0539	0.0377
Saturn	56306-04-02 06:58 G	22286494.52	22286494.79	22286495.06	0.0282	0.0022
Uranus	56307-04-22 19:41 G	22286880.16	22286880.32	22286880.51	0.0135	0.0113
Pluto	56315-01-15 16:48 G	22289704.88	22289705.20	22289705.53	0.0067	0.0005
Neptune	56345-09-25 20:53 G	22300916.09	22300916.37	22300916.67	0.0088	0.0006
Uranus	56347-09-03 04:19 G	22301623.53	22301623.68	22301623.86	0.0144	0.0117
Saturn	56394-08-27 16:19 G	22318783.91	22318784.18	22318784.45	0.0281	0.0055
Jupiter	56419-02-21 17:46 G	22327727.99	22327728.24	22327728.50	0.0488	0.0063
Neptune	56427-07-28 06:00 G	22330806.45	22330806.75	22330807.10	0.0090	0.0032
Uranus	56432-04-28 03:36 G	22332542.41	22332542.65	22332542.90	0.0143	0.0074
Saturn	56468-12-17 03:22 G	22345924.40	22345924.64	22345924.90	0.0278	0.0172
Uranus	56474-09-07 10:48 G	22348014.64	22348014.95	22348015.29	0.0135	0.0026
Saturn	56483-01-22 12:00 G	22351073.78	22351074.00	22351074.24	0.0281	0.0151
Neptune	56509-05-12 16:48 G	22360679.97	22360680.20	22360680.48	0.0088	0.0040
Neptune	56511-04-06 03:50 G	22361373.55	22361373.66	22361373.83	0.0088	0.0077
Saturn	56557-05-14 03:22 G	22378213.36	22378213.64	22378213.95	0.0278	0.0100

Pluto	56561-06-09 01:41 G	22379700.34	22379700.57	22379700.87	0.0067	0.0040
Saturn	56571-06-19 19:55 G	22383363.17	22383363.33	22383363.50	0.0281	0.0221
Jupiter	56573-05-18 06:14 G	22384061.53	22384061.76	22384061.99	0.0489	0.0221
Neptune	56593-02-05 05:46 G	22391264.50	22391264.74	22391265.02	0.0090	0.0059
Uranus	56599-09-16 13:26 G	22393678.83	22393679.06	22393679.33	0.0144	0.0068
Saturn	56629-09-27 17:17 G	22404647.17	22404647.22	22404647.30	0.0283	0.0273
Saturn	56645-10-09 12:14 G	22410502.70	22410503.01	22410503.33	0.0279	0.0016
Neptune	56672-12-27 11:02 G	22420443.89	22420443.96	22420444.06	0.0088	0.0084
Neptune	56674-11-20 23:46 G	22421137.23	22421137.49	22421137.77	0.0088	0.0032
Uranus	56684-05-12 07:12 G	22424597.66	22424597.80	22424597.99	0.0144	0.0117
Jupiter	56691-11-09 16:34 G	22427335.09	22427335.19	22427335.29	0.0489	0.0449
Jupiter	56709-10-11 05:02 G	22433879.42	22433879.71	22433880.00	0.0539	0.0113
Saturn	56718-02-22 23:46 G	22436936.32	22436936.49	22436936.69	0.0283	0.0208
Uranus	56726-09-21 09:50 G	22440068.58	22440068.91	22440069.24	0.0134	0.0017
Saturn	56734-03-05 18:29 G	22442790.95	22442791.27	22442791.59	0.0278	0.0026
Neptune	56756-09-20 14:53 G	22451025.78	22451026.12	22451026.47	0.0090	0.0001
Saturn	56806-07-18 20:53 G	22469224.18	22469224.37	22469224.57	0.0284	0.0196
Pluto	56807-11-02 06:58 G	22469695.77	22469695.79	22469695.88	0.0068	0.0067
Saturn	56822-07-29 21:50 G	22475079.10	22475079.41	22475079.72	0.0278	0.0067
Neptune	56838-07-07 17:02 G	22480900.93	22480901.21	22480901.51	0.0088	0.0014
Jupiter	56846-02-03 23:31 G	22483669.23	22483669.48	22483669.73	0.0488	0.0060
Uranus	56851-09-30 15:36 G	22485733.88	22485734.15	22485734.44	0.0144	0.0029
Uranus	56894-02-06 00:58 G	22501203.40	22501203.54	22501203.71	0.0134	0.0119
Saturn	56894-12-12 05:17 G	22501512.51	22501512.72	22501512.95	0.0284	0.0168
Saturn	56910-12-23 23:17 G	22507367.18	22507367.47	22507367.77	0.0277	0.0101
Neptune	56920-05-04 23:17 G	22510787.25	22510787.47	22510787.75	0.0090	0.0061
Neptune	56922-04-01 13:26 G	22511484.06	22511484.06	22511484.07	0.0090	0.0090
Uranus	56978-10-03 11:02 G	22532122.68	22532122.96	22532123.27	0.0135	0.0065
Saturn	56983-05-07 18:29 G	22533800.06	22533800.27	22533800.50	0.0284	0.0167
Saturn	56999-05-18 18:43 G	22539655.01	22539655.28	22539655.57	0.0277	0.0134

Jupiter 57000-05-02 08:38 G 22540003.68 22540003.86 22540004.05 0.0488 0.0335

58TH MILLENNIUM CE

This is a list of transits of Mars in the 58th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	57002-02-22 12:00	G	22540664.79	22540665.00	22540665.21	0.0088	0.0060	
Neptune	57004-01-16 22:19	G	22541358.22	22541358.43	22541358.66	0.0088	0.0057	
Saturn	57071-10-02 01:55	G	22566088.34	22566088.58	22566088.82	0.0284	0.0135	
Neptune	57085-11-13 20:10	G	22571245.03	22571245.34	22571245.68	0.0090	0.0029	
Saturn	57087-10-13 15:22	G	22571943.94	22571944.14	22571944.38	0.0277	0.0201	
Uranus	57103-10-16 05:46	G	22577789.46	22577789.74	22577790.02	0.0144	0.0028	
Jupiter	57118-10-25 05:02	G	22583277.51	22583277.71	22583277.92	0.0488	0.0288	
Jupiter	57136-09-19 07:12	G	22589816.54	22589816.80	22589817.07	0.0539	0.0249	
Pluto	57139-09-19 04:19	G	22590911.47	22590911.68	22590911.91	0.0077	0.0053	
Uranus	57146-02-20 04:05	G	22593257.40	22593257.67	22593257.97	0.0134	0.0070	
Saturn	57160-02-26 11:02	G	22598376.71	22598376.96	22598377.22	0.0284	0.0095	
Neptune	57167-09-02 16:05	G	22601121.89	22601122.17	22601122.46	0.0088	0.0010	
Saturn	57176-03-09 03:07	G	22604232.53	22604232.63	22604232.75	0.0277	0.0260	
Uranus	57230-10-16 14:24	G	22624176.96	22624177.10	22624177.30	0.0134	0.0116	
Saturn	57248-07-22 13:12	G	22630665.78	22630666.05	22630666.32	0.0284	0.0030	
Neptune	57249-06-28 02:10	G	22631006.29	22631006.59	22631006.92	0.0090	0.0033	
Uranus	57271-03-04 15:50	G	22638926.01	22638926.16	22638926.35	0.0144	0.0114	
Jupiter	57273-01-18 00:29	G	22639611.27	22639611.52	22639611.78	0.0488	0.0034	

Jupiter	57290-12-14 12:14 G	22646150.76	22646151.01	22646151.26	0.0539	0.0288
Saturn	57322-11-08 06:58 G	22657801.58	22657801.79	22657802.01	0.0276	0.0202
Neptune	57331-04-19 07:12 G	22660885.56	22660885.80	22660886.08	0.0088	0.0039
Neptune	57333-03-12 18:29 G	22661579.19	22661579.27	22661579.43	0.0088	0.0080
Saturn	57336-12-18 02:53 G	22662955.36	22662955.62	22662955.89	0.0283	0.0058
Uranus	57355-10-29 12:00 G	22669844.77	22669845.00	22669845.26	0.0144	0.0075
Pluto	57386-02-10 08:10 G	22680906.59	22680906.84	22680907.12	0.0077	0.0039
Uranus	57398-03-04 13:12 G	22685311.72	22685312.05	22685312.39	0.0134	0.0012
Saturn	57411-04-05 10:19 G	22690090.66	22690090.93	22690091.23	0.0276	0.0126
Neptune	57415-01-07 19:55 G	22691464.09	22691464.33	22691464.63	0.0090	0.0056
Saturn	57425-05-15 13:55 G	22695244.84	22695245.08	22695245.32	0.0283	0.0134
Jupiter	57427-04-15 11:46 G	22695944.79	22695944.99	22695945.18	0.0488	0.0313
Neptune	57496-10-27 09:07 G	22721342.62	22721342.88	22721343.17	0.0088	0.0031
Saturn	57499-08-31 06:43 G	22722380.46	22722380.78	22722381.10	0.0277	0.0025
Saturn	57513-10-11 09:07 G	22727534.72	22727534.88	22727535.04	0.0283	0.0227
Uranus	57523-03-20 06:43 G	22730981.52	22730981.78	22730982.05	0.0144	0.0055
Jupiter	57545-10-06 18:43 G	22739218.13	22739218.28	22739218.44	0.0489	0.0382
Saturn	57572-01-19 02:53 G	22748818.62	22748818.62	22748818.64	0.0285	0.0285
Neptune	57578-08-21 22:34 G	22751225.11	22751225.44	22751225.79	0.0090	0.0010
Saturn	57588-01-25 22:48 G	22754669.13	22754669.45	22754669.77	0.0276	0.0031
Saturn	57602-03-07 01:41 G	22759823.51	22759823.57	22759823.65	0.0283	0.0272
Uranus	57607-11-13 06:43 G	22761900.73	22761900.78	22761900.84	0.0144	0.0140
Pluto	57632-07-05 09:50 G	22770901.65	22770901.91	22770902.20	0.0077	0.0033
Uranus	57650-03-18 04:05 G	22777366.39	22777366.67	22777367.00	0.0134	0.0056
Neptune	57660-06-13 00:00 G	22781106.23	22781106.50	22781106.79	0.0088	0.0020
Saturn	57660-06-13 10:05 G	22781106.81	22781106.92	22781107.05	0.0285	0.0255
Saturn	57676-06-20 13:12 G	22786957.75	22786958.05	22786958.36	0.0276	0.0090
Jupiter	57699-12-31 18:58 G	22795552.03	22795552.29	22795552.54	0.0488	0.0027
Jupiter	57717-11-21 01:55 G	22802085.30	22802085.58	22802085.87	0.0539	0.0174
Neptune	57742-04-04 23:02 G	22810986.30	22810986.46	22810986.66	0.0090	0.0076

Neptune	57744-03-01 12:29 G	22811682.89	22811683.02	22811683.24	0.0090	0.0078
Saturn	57748-11-08 02:24 G	22813395.43	22813395.60	22813395.79	0.0285	0.0212
Saturn	57764-11-14 18:00 G	22819245.97	22819246.25	22819246.54	0.0275	0.0129
Uranus	57775-04-02 23:17 G	22823037.19	22823037.47	22823037.75	0.0144	0.0007
Uranus	57817-08-05 08:53 G	22838501.60	22838501.87	22838502.19	0.0134	0.0064
Neptune	57824-01-29 12:14 G	22840869.87	22840870.01	22840870.21	0.0088	0.0071
Neptune	57825-12-23 00:43 G	22841563.29	22841563.53	22841563.78	0.0088	0.0048
Saturn	57837-04-03 16:34 G	22845683.02	22845683.19	22845683.39	0.0286	0.0209
Saturn	57853-04-10 13:26 G	22851533.82	22851534.06	22851534.33	0.0276	0.0162
Jupiter	57854-03-29 01:55 G	22851886.42	22851886.58	22851886.76	0.0488	0.0360
Jupiter	57872-02-16 08:24 G	22858419.64	22858419.85	22858420.07	0.0540	0.0382
Pluto	57878-11-28 00:43 G	22860896.34	22860896.53	22860896.78	0.0077	0.0052
Uranus	57902-04-02 01:12 G	22869421.47	22869421.55	22869421.68	0.0134	0.0127
Neptune	57907-10-15 11:02 G	22871443.63	22871443.96	22871444.31	0.0090	0.0009
Saturn	57925-08-28 20:53 G	22877971.18	22877971.37	22877971.59	0.0286	0.0183
Saturn	57941-09-05 02:24 G	22883822.42	22883822.60	22883822.81	0.0275	0.0216
Uranus	57942-08-22 13:26 G	22884173.95	22884174.06	22884174.20	0.0144	0.0129
Jupiter	57972-09-20 02:38 G	22895160.39	22895160.61	22895160.83	0.0489	0.0248
Neptune	57989-08-08 12:29 G	22901326.73	22901327.02	22901327.31	0.0088	0.0003

59TH MILLENNIUM CE

This is a list of transits of Mars in the 59th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Saturn	58014-01-21 19:12 G	22910259.09	22910259.30	22910259.53	0.0286	0.0162
Uranus	58027-04-17 17:02 G	22915092.97	22915093.21	22915093.47	0.0144	0.0068
Saturn	58030-01-29 03:50 G	22916110.56	22916110.66	22916110.78	0.0275	0.0259
Pluto	58039-10-26 19:12 G	22919668.19	22919668.30	22919668.45	0.0068	0.0062
Uranus	58069-08-18 11:02 G	22930556.63	22930556.96	22930557.29	0.0134	0.0015
Neptune	58071-05-28 07:55 G	22931204.60	22931204.83	22931205.10	0.0090	0.0061
Saturn	58102-06-18 12:14 G	22942547.77	22942548.01	22942548.27	0.0286	0.0114
Pluto	58125-04-21 14:38 G	22950891.09	22950891.11	22950891.19	0.0077	0.0076
Jupiter	58126-12-16 06:00 G	22951494.51	22951494.75	22951495.00	0.0488	0.0113
Jupiter	58144-10-29 19:55 G	22958022.12	22958022.33	22958022.57	0.0539	0.0359
Neptune	58153-03-25 01:55 G	22961090.35	22961090.58	22961090.80	0.0088	0.0055
Neptune	58155-02-16 11:31 G	22961783.81	22961783.98	22961784.20	0.0088	0.0065
Saturn	58176-09-28 22:19 G	22969679.24	22969679.43	22969679.64	0.0274	0.0215
Saturn	58190-11-12 15:07 G	22974836.86	22974837.13	22974837.40	0.0286	0.0044
Uranus	58194-09-05 15:36 G	22976229.90	22976230.15	22976230.42	0.0144	0.0055
Neptune	58236-12-06 17:46 G	22991661.90	22991662.24	22991662.57	0.0090	0.0022
Uranus	58237-01-05 21:36 G	22991692.18	22991692.40	22991692.66	0.0134	0.0095
Saturn	58265-02-23 22:05 G	23001968.16	23001968.42	23001968.70	0.0274	0.0144
Saturn	58279-04-10 00:29 G	23007126.25	23007126.52	23007126.79	0.0285	0.0032
Uranus	58279-05-02 14:53 G	23007149.07	23007149.12	23007149.21	0.0144	0.0140
Jupiter	58281-03-11 21:07 G	23007828.24	23007828.38	23007828.51	0.0489	0.0409
Pluto	58286-03-19 15:36 G	23009661.88	23009662.15	23009662.46	0.0068	0.0031
Jupiter	58299-01-23 16:05 G	23014354.87	23014355.17	23014355.47	0.0538	0.0009
Neptune	58318-10-04 01:12 G	23021547.26	23021547.55	23021547.84	0.0088	0.0012
Uranus	58321-09-02 18:43 G	23022612.09	23022612.28	23022612.53	0.0134	0.0101
Saturn	58353-07-22 23:46 G	23034258.18	23034258.49	23034258.81	0.0275	0.0036
Saturn	58367-09-05 23:02 G	23039416.23	23039416.46	23039416.71	0.0285	0.0131
Jupiter	58399-09-03 03:22 G	23051101.44	23051101.64	23051101.84	0.0489	0.0301
Neptune	58400-07-20 12:00 G	23051422.74	23051423.00	23051423.31	0.0090	0.0050
Saturn	58441-12-17 00:29 G	23066547.20	23066547.52	23066547.84	0.0274	0.0033

Uranus	58446-09-20 08:10 G	23068285.56	23068285.84	23068286.13	0.0144	0.0005
Jupiter	58453-04-19 14:38 G	23070689.02	23070689.11	23070689.22	0.0539	0.0507
Saturn	58456-01-31 01:41 G	23071705.38	23071705.57	23071705.78	0.0285	0.0194
Neptune	58482-05-19 12:58 G	23081310.79	23081311.04	23081311.30	0.0088	0.0041
Neptune	58484-04-12 00:00 G	23082004.41	23082004.50	23082004.65	0.0088	0.0080
Uranus	58489-01-19 09:50 G	23083747.58	23083747.91	23083748.25	0.0134	0.0006
Saturn	58530-05-14 04:48 G	23098836.42	23098836.70	23098837.01	0.0275	0.0110
Pluto	58532-08-10 02:10 G	23099655.29	23099655.59	23099655.93	0.0068	0.0020
Saturn	58544-06-27 14:24 G	23103995.03	23103995.10	23103995.20	0.0285	0.0271
Jupiter	58553-11-27 21:50 G	23107435.15	23107435.41	23107435.66	0.0489	0.0024
Neptune	58566-01-28 21:22 G	23111880.09	23111880.39	23111880.72	0.0090	0.0034
Saturn	58602-10-05 16:34 G	23125278.12	23125278.19	23125278.28	0.0287	0.0273
Uranus	58614-02-09 05:17 G	23129422.60	23129422.72	23129422.89	0.0144	0.0124
Saturn	58618-10-08 17:46 G	23131125.00	23131125.24	23131125.52	0.0274	0.0161
Neptune	58647-11-28 11:31 G	23141767.72	23141767.98	23141768.27	0.0088	0.0027
Uranus	58656-06-08 23:02 G	23144883.30	23144883.46	23144883.67	0.0134	0.0112
Saturn	58691-02-28 11:31 G	23157565.88	23157565.98	23157566.10	0.0287	0.0263
Uranus	58698-10-05 09:50 G	23160341.68	23160341.91	23160342.15	0.0144	0.0079
Saturn	58707-03-04 19:55 G	23163413.11	23163413.33	23163413.55	0.0274	0.0201
Jupiter	58708-02-24 00:29 G	23163769.37	23163769.52	23163769.68	0.0489	0.0388
Jupiter	58725-12-31 21:07 G	23170290.18	23170290.38	23170290.61	0.0538	0.0381
Neptune	58729-09-12 16:34 G	23171640.90	23171641.19	23171641.52	0.0090	0.0038
Uranus	58741-02-03 19:41 G	23175803.09	23175803.32	23175803.61	0.0134	0.0084
Saturn	58779-07-25 18:29 G	23189854.11	23189854.27	23189854.43	0.0287	0.0232
Saturn	58795-07-29 05:46 G	23195701.62	23195701.74	23195701.87	0.0273	0.0251
Neptune	58811-07-14 23:17 G	23201531.21	23201531.47	23201531.76	0.0088	0.0027
Jupiter	58826-08-17 01:41 G	23207043.35	23207043.57	23207043.80	0.0490	0.0225
Uranus	58866-02-23 06:29 G	23221478.51	23221478.77	23221479.04	0.0144	0.0050
Saturn	58867-12-18 09:36 G	23222141.74	23222141.90	23222142.08	0.0288	0.0223
Jupiter	58880-03-28 08:10 G	23226625.61	23226625.84	23226626.09	0.0539	0.0327

Neptune	58895-03-23 02:38 G	23232098.35	23232098.61	23232098.93	0.0090	0.0048
Uranus	58908-06-23 07:41 G	23236938.50	23236938.82	23236939.16	0.0134	0.0027
Uranus	58950-10-20 02:10 G	23252397.55	23252397.59	23252397.68	0.0144	0.0141
Saturn	58956-05-13 19:26 G	23254430.12	23254430.31	23254430.53	0.0287	0.0187
Neptune	58975-02-28 10:34 G	23261294.85	23261294.94	23261295.08	0.0088	0.0080
Neptune	58977-01-21 23:02 G	23261988.22	23261988.46	23261988.73	0.0088	0.0042
Jupiter	58980-11-11 11:02 G	23263377.72	23263377.96	23263378.20	0.0489	0.0172

60TH MILLENNIUM CE

This is a list of transits of Mars in the 60th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	59030-08-22 08:10 G		23281557.65	23281557.84	23281558.07	0.0273	0.0205	
Saturn	59044-10-08 09:50 G		23286718.67	23286718.91	23286719.15	0.0287	0.0136	
Neptune	59058-11-05 00:58 G		23291859.23	23291859.54	23291859.89	0.0090	0.0023	
Pluto	59112-10-12 11:31 G		23311558.70	23311558.98	23311559.29	0.0076	0.0015	
Uranus	59118-03-10 20:10 G		23313534.05	23313534.34	23313534.62	0.0144	0.0005	
Saturn	59119-01-16 23:17 G		23313846.21	23313846.47	23313846.75	0.0273	0.0146	
Saturn	59133-03-05 12:00 G		23319007.74	23319008.00	23319008.26	0.0287	0.0072	
Neptune	59140-09-08 10:19 G		23321751.65	23321751.93	23321752.23	0.0088	0.0011	
Uranus	59160-07-07 08:10 G		23328993.55	23328993.84	23328994.17	0.0134	0.0052	
Saturn	59207-06-13 22:48 G		23346136.14	23346136.45	23346136.77	0.0273	0.0041	
Saturn	59221-07-31 06:14 G		23351297.49	23351297.76	23351298.03	0.0287	0.0021	
Neptune	59224-05-15 13:26 G		23352316.85	23352317.06	23352317.33	0.0090	0.0065	

Jupiter	59253-07-30 12:43 G	23362984.81	23362985.03	23362985.26	0.0490	0.0216
Pluto	59273-09-04 18:43 G	23370325.95	23370326.28	23370326.61	0.0068	0.0002
Uranus	59285-07-28 14:53 G	23374671.00	23374671.12	23374671.29	0.0144	0.0124
Saturn	59295-11-08 00:58 G	23378425.22	23378425.54	23378425.86	0.0273	0.0031
Neptune	59304-04-24 23:02 G	23381515.27	23381515.46	23381515.67	0.0088	0.0063
Neptune	59306-03-19 10:48 G	23382208.76	23382208.95	23382209.18	0.0088	0.0060
Jupiter	59307-03-05 20:53 G	23382560.09	23382560.37	23382560.66	0.0538	0.0155
Saturn	59309-12-26 12:14 G	23383586.76	23383587.01	23383587.27	0.0287	0.0092
Uranus	59327-11-24 10:19 G	23390128.66	23390128.93	23390129.24	0.0134	0.0068
Uranus	59370-03-24 14:24 G	23405589.85	23405590.10	23405590.35	0.0144	0.0071
Saturn	59384-04-04 14:38 G	23410714.84	23410715.11	23410715.41	0.0274	0.0123
Neptune	59387-12-28 17:17 G	23412077.88	23412078.22	23412078.57	0.0090	0.0004
Saturn	59398-05-23 09:22 G	23415876.70	23415876.89	23415877.11	0.0286	0.0186
Jupiter	59407-10-26 01:41 G	23419318.32	23419318.57	23419318.82	0.0490	0.0086
Uranus	59412-07-21 02:10 G	23421048.49	23421048.59	23421048.76	0.0134	0.0122
Jupiter	59461-05-29 23:17 G	23438893.20	23438893.47	23438893.73	0.0538	0.0252
Neptune	59469-11-03 00:58 G	23441972.25	23441972.54	23441972.83	0.0088	0.0008
Saturn	59472-08-30 11:31 G	23443003.76	23443003.98	23443004.23	0.0273	0.0185
Saturn	59486-10-17 20:53 G	23448165.22	23448165.37	23448165.55	0.0287	0.0226
Uranus	59537-08-13 02:53 G	23466726.38	23466726.62	23466726.88	0.0144	0.0069
Neptune	59551-08-12 22:19 G	23471839.24	23471839.43	23471839.66	0.0090	0.0070
Neptune	59553-07-09 09:07 G	23472535.82	23472535.88	23472535.98	0.0090	0.0087
Saturn	59561-01-24 23:46 G	23475292.35	23475292.49	23475292.65	0.0273	0.0240
Jupiter	59562-01-19 21:50 G	23475652.28	23475652.41	23475652.54	0.0490	0.0421
Saturn	59575-03-14 19:41 G	23480454.28	23480454.32	23480454.37	0.0287	0.0282
Uranus	59579-12-08 02:24 G	23482183.26	23482183.60	23482183.93	0.0134	0.0002
Pluto	59607-06-17 09:22 G	23492236.68	23492236.89	23492237.11	0.0076	0.0053
Uranus	59622-04-07 23:17 G	23497645.32	23497645.47	23497645.64	0.0144	0.0119
Neptune	59633-06-19 14:38 G	23501735.87	23501736.11	23501736.38	0.0088	0.0044
Saturn	59633-06-20 08:24 G	23501736.81	23501736.85	23501736.88	0.0288	0.0286

Neptune	59635-05-14 04:05 G	23502429.57	23502429.67	23502429.81	0.0088	0.0080
Jupiter	59680-07-12 19:55 G	23518926.10	23518926.33	23518926.56	0.0491	0.0212
Neptune	59717-02-20 18:00 G	23532296.92	23532297.25	23532297.58	0.0090	0.0022
Saturn	59721-11-13 21:22 G	23534024.34	23534024.39	23534024.48	0.0289	0.0280
Jupiter	59734-02-10 21:22 G	23538496.21	23538496.39	23538496.57	0.0537	0.0428
Uranus	59747-04-25 21:50 G	23543318.33	23543318.41	23543318.52	0.0134	0.0128
Pluto	59768-05-08 17:31 G	23551001.93	23551002.23	23551002.57	0.0068	0.0018
Uranus	59789-08-26 13:55 G	23558781.80	23558782.08	23558782.37	0.0144	0.0016
Saturn	59796-02-17 09:50 G	23561147.79	23561147.91	23561148.06	0.0271	0.0244
Neptune	59798-12-28 18:14 G	23562193.01	23562193.26	23562193.56	0.0088	0.0030
Saturn	59810-04-10 03:36 G	23566312.53	23566312.65	23566312.80	0.0288	0.0249
Uranus	59831-12-21 08:10 G	23574237.55	23574237.84	23574238.16	0.0134	0.0055
Jupiter	59834-10-09 08:10 G	23575260.62	23575260.84	23575261.08	0.0490	0.0208
Neptune	59880-10-05 03:50 G	23592058.37	23592058.66	23592058.97	0.0090	0.0042
Saturn	59884-07-14 10:34 G	23593436.69	23593436.94	23593437.18	0.0271	0.0172
Jupiter	59888-05-07 21:07 G	23594830.09	23594830.38	23594830.68	0.0537	0.0079
Saturn	59898-09-03 06:29 G	23598600.60	23598600.77	23598600.96	0.0288	0.0219
Jupiter	59953-04-02 01:55 G	23618534.49	23618534.58	23618534.68	0.0492	0.0454
Neptune	59962-08-15 10:19 G	23621956.65	23621956.93	23621957.22	0.0088	0.0021
Saturn	59972-12-08 15:22 G	23625724.86	23625725.14	23625725.42	0.0272	0.0127
Saturn	59987-01-29 00:43 G	23630889.31	23630889.53	23630889.75	0.0288	0.0168
Uranus	59999-05-09 00:00 G	23635372.25	23635372.50	23635372.79	0.0134	0.0079

61ST MILLENNIUM CE

This is a list of transits of Mars in the 61st millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Uranus	60041-09-09	22:34	G	23650837.18	23650837.44	23650837.73	0.0144	0.0034	
Neptune	60046-04-16	00:58	G	23652516.29	23652516.54	23652516.84	0.0090	0.0052	
Saturn	60061-05-05	09:07	G	23658014.57	23658014.88	23658015.20	0.0272	0.0031	
Saturn	60075-06-25	11:02	G	23663178.71	23663178.96	23663179.23	0.0288	0.0089	
Uranus	60084-01-02	11:31	G	23666291.77	23666291.98	23666292.19	0.0134	0.0105	
Pluto	60102-02-18	21:07	G	23672913.13	23672913.38	23672913.66	0.0076	0.0036	
Jupiter	60107-06-27	18:43	G	23674868.04	23674868.28	23674868.53	0.0492	0.0141	
Neptune	60126-04-01	02:24	G	23681720.46	23681720.60	23681720.80	0.0088	0.0072	
Neptune	60128-02-23	16:34	G	23682413.98	23682414.19	23682414.44	0.0088	0.0054	
Saturn	60149-09-30	08:24	G	23690303.54	23690303.85	23690304.17	0.0272	0.0037	
Saturn	60163-11-20	16:34	G	23695467.92	23695468.19	23695468.46	0.0288	0.0018	
Uranus	60209-01-29	08:53	G	23711973.71	23711973.87	23711974.07	0.0144	0.0111	
Neptune	60209-11-29	13:41	G	23712277.75	23712278.07	23712278.42	0.0090	0.0013	
Saturn	60238-02-26	04:34	G	23722593.42	23722593.69	23722593.98	0.0273	0.0135	
Uranus	60251-05-22	01:26	G	23727426.25	23727426.56	23727426.90	0.0134	0.0030	
Saturn	60252-04-17	18:14	G	23727758.01	23727758.26	23727758.53	0.0287	0.0084	
Jupiter	60261-09-21	06:29	G	23731201.54	23731201.77	23731202.02	0.0491	0.0160	
Pluto	60263-01-09	10:19	G	23731676.65	23731676.93	23731677.25	0.0068	0.0029	
Neptune	60291-10-10	09:36	G	23742177.61	23742177.90	23742178.20	0.0088	0.0005	
Uranus	60293-09-24	05:02	G	23742892.48	23742892.71	23742892.96	0.0144	0.0077	
Jupiter	60315-04-15	08:38	G	23750764.69	23750764.86	23750765.06	0.0536	0.0414	
Saturn	60326-07-24	07:55	G	23754882.64	23754882.83	23754883.05	0.0272	0.0207	
Saturn	60340-09-12	14:53	G	23760046.88	23760047.12	23760047.36	0.0288	0.0140	
Neptune	60373-07-14	03:36	G	23772039.48	23772039.65	23772039.85	0.0090	0.0075	
Neptune	60375-06-10	11:02	G	23772735.87	23772735.96	23772736.13	0.0090	0.0083	
Jupiter	60415-12-16	21:22	G	23787535.31	23787535.39	23787535.46	0.0492	0.0467	
Saturn	60429-02-07	00:29	G	23792336.35	23792336.52	23792336.71	0.0287	0.0216	

Neptune	60455-05-27 01:55 G	23801941.35	23801941.58	23801941.85	0.0088	0.0045
Neptune	60457-04-19 16:34 G	23802635.10	23802635.19	23802635.32	0.0088	0.0081
Uranus	60461-02-11 18:14 G	23804029.01	23804029.26	23804029.53	0.0144	0.0060
Jupiter	60469-07-09 20:10 G	23807099.06	23807099.34	23807099.63	0.0536	0.0165
Uranus	60503-06-03 21:36 G	23819480.07	23819480.40	23819480.74	0.0134	0.0013
Pluto	60511-04-22 12:58 G	23822359.95	23822360.04	23822360.19	0.0068	0.0064
Saturn	60517-07-04 00:14 G	23824624.37	23824624.51	23824624.67	0.0288	0.0239
Jupiter	60534-06-09 13:41 G	23830808.84	23830809.07	23830809.30	0.0493	0.0202
Neptune	60539-01-23 02:24 G	23832497.28	23832497.60	23832497.94	0.0090	0.0020
Uranus	60545-10-08 13:41 G	23834947.95	23834948.07	23834948.22	0.0144	0.0127
Saturn	60561-08-17 14:10 G	23840739.93	23840740.09	23840740.29	0.0271	0.0221
Pluto	60596-10-21 06:58 G	23853588.63	23853588.79	23853589.02	0.0076	0.0057
Saturn	60605-11-28 11:17 G	23856912.92	23856912.97	23856913.04	0.0288	0.0280
Neptune	60620-12-05 09:36 G	23862398.64	23862398.90	23862399.19	0.0088	0.0032
Saturn	60650-01-11 09:36 G	23873027.69	23873027.90	23873028.14	0.0271	0.0189
Uranus	60670-10-20 11:02 G	23880614.86	23880614.96	23880615.11	0.0134	0.0124
Jupiter	60688-09-04 02:24 G	23887143.38	23887143.60	23887143.83	0.0492	0.0229
Neptune	60702-09-07 16:19 G	23892258.90	23892259.18	23892259.49	0.0090	0.0044
Uranus	60713-02-26 23:46 G	23896084.20	23896084.49	23896084.77	0.0144	0.0017
Saturn	60738-06-08 06:00 G	23905316.48	23905316.75	23905317.04	0.0271	0.0123
Saturn	60752-07-30 09:36 G	23910482.88	23910482.90	23910482.94	0.0289	0.0287
Uranus	60755-06-16 21:36 G	23911534.11	23911534.40	23911534.72	0.0134	0.0060
Neptune	60784-07-22 02:10 G	23922162.30	23922162.59	23922162.88	0.0088	0.0018
Jupiter	60807-02-26 20:24 G	23930417.24	23930417.35	23930417.48	0.0493	0.0432
Saturn	60826-11-01 03:36 G	23937604.35	23937604.65	23937604.95	0.0271	0.0089
Saturn	60840-12-23 19:26 G	23942771.17	23942771.31	23942771.45	0.0289	0.0249
Pluto	60845-02-01 17:31 G	23944272.01	23944272.23	23944272.49	0.0076	0.0044
Neptune	60868-03-17 14:24 G	23952716.84	23952717.10	23952717.39	0.0090	0.0052
Jupiter	60896-06-17 23:02 G	23963036.16	23963036.46	23963036.76	0.0535	0.0003
Saturn	60915-03-29 13:12 G	23969893.73	23969894.05	23969894.36	0.0272	0.0005

Uranus	60922-11-02 11:02 G	23972668.70	23972668.96	23972669.25	0.0134	0.0075
Saturn	60929-05-20 18:00 G	23975060.05	23975060.25	23975060.46	0.0288	0.0189
Neptune	60948-03-07 15:36 G	23981925.99	23981926.15	23981926.35	0.0088	0.0069
Neptune	60950-01-30 08:24 G	23982619.65	23982619.85	23982620.09	0.0088	0.0059
Jupiter	60961-05-23 18:29 G	23986751.02	23986751.27	23986751.52	0.0493	0.0083
Uranus	60965-03-12 06:00 G	23988139.47	23988139.75	23988140.03	0.0144	0.0031

62ND MILLENNIUM CE

This is a list of transits of Mars in the 62nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	61003-08-24 03:22 G		24002182.34	24002182.64	24002182.96	0.0271	0.0052	
Uranus	61007-06-29 18:58 G		24003588.10	24003588.29	24003588.52	0.0134	0.0105	
Saturn	61017-10-15 17:02 G		24007348.97	24007349.21	24007349.46	0.0288	0.0127	
Neptune	61031-11-01 05:31 G		24012478.41	24012478.73	24012479.08	0.0090	0.0012	
Jupiter	61050-09-13 03:07 G		24019369.45	24019369.63	24019369.83	0.0535	0.0409	
Saturn	61092-01-18 21:36 G		24034472.14	24034472.40	24034472.68	0.0272	0.0147	
Saturn	61106-03-13 17:17 G		24039638.94	24039639.22	24039639.49	0.0288	0.0026	
Neptune	61113-09-16 22:19 G		24042383.15	24042383.43	24042383.73	0.0088	0.0009	
Jupiter	61115-08-19 07:26 G		24043084.59	24043084.81	24043085.04	0.0493	0.0235	
Uranus	61132-07-31 16:19 G		24049276.01	24049276.18	24049276.38	0.0144	0.0108	
Uranus	61174-11-15 10:34 G		24064722.62	24064722.94	24064723.28	0.0134	0.0030	
Saturn	61180-06-15 01:26 G		24066761.39	24066761.56	24066761.75	0.0271	0.0222	
Saturn	61194-08-07 19:12 G		24071928.02	24071928.30	24071928.57	0.0288	0.0041	

Neptune	61195-06-15 20:10 G	24072240.17	24072240.34	24072240.54	0.0090	0.0075
Neptune	61197-05-12 00:29 G	24072936.44	24072936.52	24072936.69	0.0090	0.0084
Uranus	61217-03-26 12:14 G	24080194.79	24080195.01	24080195.27	0.0144	0.0078
Pluto	61254-04-01 09:50 G	24093714.61	24093714.91	24093715.24	0.0068	0.0024
Neptune	61277-05-02 11:46 G	24102146.76	24102146.99	24102147.27	0.0088	0.0044
Neptune	61279-03-27 04:05 G	24102840.62	24102840.67	24102840.76	0.0088	0.0085
Saturn	61283-01-02 14:24 G	24104217.87	24104218.10	24104218.35	0.0288	0.0136
Jupiter	61323-05-26 13:41 G	24118970.95	24118971.07	24118971.21	0.0533	0.0479
Saturn	61327-02-14 11:17 G	24120330.85	24120330.97	24120331.12	0.0271	0.0243
Neptune	61360-12-24 14:53 G	24132697.81	24132698.12	24132698.47	0.0090	0.0019
Saturn	61371-05-29 22:48 G	24136506.24	24136506.45	24136506.67	0.0288	0.0174
Uranus	61384-08-13 22:19 G	24141331.18	24141331.43	24141331.69	0.0144	0.0063
Jupiter	61388-05-04 23:46 G	24142691.25	24142691.49	24142691.73	0.0495	0.0192
Saturn	61415-07-12 12:43 G	24152619.79	24152620.03	24152620.28	0.0270	0.0171
Uranus	61426-11-28 16:19 G	24156776.86	24156777.18	24156777.52	0.0134	0.0025
Neptune	61442-11-11 16:48 G	24162603.94	24162604.20	24162604.49	0.0088	0.0033
Saturn	61459-10-24 18:00 G	24168795.10	24168795.25	24168795.43	0.0288	0.0231
Uranus	61469-04-09 19:12 G	24172250.19	24172250.30	24172250.45	0.0144	0.0128
Jupiter	61477-08-20 08:38 G	24175304.57	24175304.86	24175305.16	0.0534	0.0006
Pluto	61502-07-13 04:48 G	24184396.37	24184396.70	24184397.04	0.0068	0.0009
Saturn	61503-12-06 13:55 G	24184907.82	24184908.08	24184908.37	0.0271	0.0131
Neptune	61524-08-09 04:34 G	24192459.42	24192459.69	24192459.99	0.0089	0.0048
Jupiter	61542-08-01 10:19 G	24199025.71	24199025.93	24199026.16	0.0494	0.0235
Saturn	61548-03-19 11:02 G	24201082.82	24201082.96	24201083.10	0.0288	0.0245
Saturn	61592-05-01 10:05 G	24217196.62	24217196.92	24217197.23	0.0271	0.0065
Uranus	61594-04-16 14:10 G	24217911.90	24217912.09	24217912.34	0.0134	0.0101
Neptune	61606-06-28 03:07 G	24222367.35	24222367.63	24222367.93	0.0088	0.0020
Saturn	61636-08-12 16:34 G	24233371.12	24233371.19	24233371.26	0.0288	0.0277
Uranus	61636-08-28 09:36 G	24233386.62	24233386.90	24233387.19	0.0144	0.0005
Jupiter	61661-01-22 00:58 G	24242299.44	24242299.54	24242299.67	0.0496	0.0442

Uranus	61678-12-11 01:55 G	24248831.34	24248831.58	24248831.86	0.0134	0.0083
Saturn	61680-09-24 03:07 G	24249484.32	24249484.63	24249484.94	0.0271	0.0038
Neptune	61690-02-16 21:22 G	24252917.10	24252917.39	24252917.68	0.0090	0.0044
Pluto	61750-10-21 17:17 G	24275077.94	24275078.22	24275078.55	0.0068	0.0030
Saturn	61769-02-19 05:46 G	24281773.43	24281773.74	24281774.05	0.0271	0.0036
Neptune	61770-02-11 12:29 G	24282130.90	24282131.02	24282131.21	0.0088	0.0075
Neptune	61772-01-06 06:58 G	24282824.58	24282824.79	24282825.04	0.0088	0.0056
Saturn	61783-04-15 03:22 G	24286941.55	24286941.64	24286941.74	0.0288	0.0269
Uranus	61804-01-17 22:19 G	24294523.37	24294523.43	24294523.49	0.0144	0.0141
Jupiter	61815-04-20 04:34 G	24298633.44	24298633.69	24298633.95	0.0496	0.0056
Uranus	61846-04-30 07:55 G	24309966.51	24309966.83	24309967.16	0.0134	0.0034
Neptune	61853-10-02 08:24 G	24312678.54	24312678.85	24312679.19	0.0089	0.0025
Saturn	61857-07-16 11:31 G	24314061.69	24314061.98	24314062.29	0.0271	0.0079
Saturn	61871-09-09 18:58 G	24319230.12	24319230.29	24319230.47	0.0288	0.0220
Uranus	61888-09-11 21:07 G	24325442.12	24325442.38	24325442.66	0.0144	0.0051
Jupiter	61904-07-30 13:26 G	24331241.79	24331242.06	24331242.34	0.0532	0.0173
Neptune	61935-08-23 17:02 G	24342587.91	24342588.21	24342588.50	0.0088	0.0001
Saturn	61945-12-12 01:26 G	24346351.33	24346351.56	24346351.82	0.0272	0.0168
Saturn	61960-02-05 12:29 G	24351519.77	24351520.02	24351520.27	0.0288	0.0130
Jupiter	61969-07-15 00:00 G	24354967.30	24354967.50	24354967.71	0.0496	0.0298
Pluto	61999-01-31 00:14 G	24365759.27	24365759.51	24365759.81	0.0068	0.0041

63RD MILLENNIUM CE

This is a list of transits of Mars in the 63rd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Neptune	62019-04-12 20:53 G	24373136.16	24373136.37	24373136.63	0.0090	0.0065
Saturn	62034-05-08 02:38 G	24378640.47	24378640.61	24378640.77	0.0271	0.0237
Saturn	62048-07-01 14:53 G	24383808.85	24383809.12	24383809.39	0.0288	0.0064
Uranus	62056-01-31 11:31 G	24386578.76	24386578.98	24386579.24	0.0144	0.0081
Jupiter	62058-10-24 06:58 G	24387575.55	24387575.79	24387576.04	0.0531	0.0297
Jupiter	62088-01-04 18:29 G	24398240.22	24398240.27	24398240.32	0.0497	0.0486
Uranus	62098-05-13 08:24 G	24402021.54	24402021.85	24402022.18	0.0134	0.0042
Neptune	62099-04-07 22:48 G	24402351.25	24402351.45	24402351.71	0.0088	0.0056
Neptune	62101-03-02 18:43 G	24403045.17	24403045.28	24403045.47	0.0088	0.0076
Saturn	62136-11-27 16:05 G	24416098.90	24416099.17	24416099.45	0.0288	0.0043
Uranus	62140-09-26 13:55 G	24417497.93	24417498.08	24417498.27	0.0144	0.0116
Saturn	62181-01-07 04:05 G	24432210.48	24432210.67	24432210.86	0.0272	0.0213
Neptune	62182-11-25 07:55 G	24432897.50	24432897.83	24432898.17	0.0090	0.0006
Saturn	62225-04-24 08:53 G	24448387.61	24448387.87	24448388.13	0.0288	0.0097
Jupiter	62242-04-01 05:31 G	24454573.49	24454573.73	24454573.97	0.0497	0.0179
Pluto	62247-05-12 02:24 G	24456440.36	24456440.60	24456440.91	0.0068	0.0041
Neptune	62264-10-17 01:12 G	24462808.27	24462808.55	24462808.86	0.0088	0.0020
Uranus	62265-09-30 21:36 G	24463157.13	24463157.40	24463157.70	0.0134	0.0067
Saturn	62269-06-04 11:02 G	24464499.70	24464499.96	24464500.24	0.0271	0.0132
Uranus	62308-02-16 06:29 G	24478634.49	24478634.77	24478635.06	0.0144	0.0014
Saturn	62313-09-19 16:05 G	24480676.95	24480677.17	24480677.39	0.0288	0.0174
Neptune	62346-07-10 16:34 G	24492659.05	24492659.19	24492659.39	0.0089	0.0077
Neptune	62348-06-05 16:05 G	24493355.04	24493355.17	24493355.32	0.0090	0.0081
Uranus	62350-05-28 13:55 G	24494076.94	24494077.08	24494077.23	0.0134	0.0120
Saturn	62357-10-29 21:36 G	24496788.11	24496788.40	24496788.70	0.0271	0.0080
Jupiter	62396-06-26 12:58 G	24510907.82	24510908.04	24510908.27	0.0497	0.0235
Saturn	62402-02-12 14:10 G	24512964.91	24512965.09	24512965.31	0.0288	0.0200
Neptune	62428-06-02 06:58 G	24522571.54	24522571.79	24522572.08	0.0088	0.0039

Saturn	62446-03-25 22:48 G	24529077.14	24529077.45	24529077.76	0.0271	0.0008
Uranus	62475-07-05 21:22 G	24539771.39	24539771.39	24539771.41	0.0144	0.0144
Jupiter	62485-10-01 19:55 G	24543512.04	24543512.33	24543512.62	0.0530	0.0019
Saturn	62490-07-09 00:29 G	24545253.37	24545253.52	24545253.68	0.0288	0.0239
Pluto	62495-08-20 02:38 G	24547121.35	24547121.61	24547121.92	0.0068	0.0037
Neptune	62512-01-19 00:43 G	24553116.20	24553116.53	24553116.86	0.0089	0.0009
Jupiter	62514-12-18 20:38 G	24554181.30	24554181.36	24554181.45	0.0499	0.0476
Uranus	62517-10-15 07:26 G	24555212.49	24555212.81	24555213.15	0.0134	0.0019
Saturn	62534-08-19 16:48 G	24561364.89	24561365.20	24561365.52	0.0271	0.0021
Uranus	62560-02-29 21:50 G	24570690.15	24570690.41	24570690.69	0.0144	0.0050
Saturn	62578-12-02 21:07 G	24577541.26	24577541.38	24577541.50	0.0288	0.0258
Neptune	62593-12-11 07:26 G	24583028.56	24583028.81	24583029.10	0.0088	0.0036
Saturn	62623-01-14 15:50 G	24593653.88	24593654.16	24593654.46	0.0271	0.0089
Jupiter	62669-03-15 03:22 G	24610515.38	24610515.64	24610515.90	0.0499	0.0061
Neptune	62675-09-02 08:38 G	24612877.66	24612877.86	24612878.12	0.0089	0.0065
Uranus	62685-03-04 01:41 G	24616348.33	24616348.57	24616348.85	0.0134	0.0083
Saturn	62711-06-10 13:41 G	24625941.80	24625942.07	24625942.35	0.0271	0.0120
Uranus	62727-07-21 14:24 G	24631826.87	24631827.10	24631827.36	0.0144	0.0075
Pluto	62743-11-29 21:50 G	24637802.10	24637802.41	24637802.74	0.0068	0.0024
Neptune	62757-07-28 09:07 G	24642791.60	24642791.88	24642792.18	0.0088	0.0022
Uranus	62769-10-29 18:58 G	24647268.09	24647268.29	24647268.50	0.0134	0.0105
Saturn	62799-11-04 20:24 G	24658231.14	24658231.35	24658231.56	0.0272	0.0199
Uranus	62812-03-15 20:24 G	24662746.23	24662746.35	24662746.52	0.0144	0.0126
Saturn	62813-12-30 08:10 G	24663400.67	24663400.84	24663401.03	0.0287	0.0221
Jupiter	62823-06-10 05:02 G	24666849.52	24666849.71	24666849.90	0.0498	0.0337
Neptune	62841-03-12 15:22 G	24673334.82	24673335.14	24673335.47	0.0089	0.0021
Saturn	62888-03-30 12:58 G	24690519.96	24690520.04	24690520.15	0.0272	0.0257
Saturn	62902-05-27 06:14 G	24695689.53	24695689.76	24695690.00	0.0288	0.0160
Jupiter	62912-09-10 18:43 G	24699449.02	24699449.28	24699449.56	0.0528	0.0199
Neptune	62921-03-13 10:48 G	24702554.85	24702554.95	24702555.07	0.0088	0.0081

Neptune	62923-02-05 09:22 G	24703248.65	24703248.89	24703249.13	0.0088	0.0052
Uranus	62937-03-18 14:53 G	24708403.79	24708404.12	24708404.45	0.0134	0.0004
Jupiter	62941-11-30 17:31 G	24710122.15	24710122.23	24710122.32	0.0500	0.0470
Uranus	62979-08-04 11:17 G	24723882.68	24723882.97	24723883.26	0.0144	0.0003
Saturn	62990-10-22 07:41 G	24727979.55	24727979.82	24727980.10	0.0287	0.0052
Pluto	62992-03-08 15:50 G	24728482.82	24728483.16	24728483.50	0.0068	0.0009

64TH MILLENNIUM CE

This is a list of transits of Mars in the 64th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	63004-10-26 00:58 G		24733096.29	24733096.54	24733096.83	0.0089	0.0052	
Saturn	63034-12-01 21:50 G		24744090.20	24744090.41	24744090.64	0.0272	0.0191	
Jupiter	63066-12-06 01:26 G		24755782.30	24755782.56	24755782.83	0.0529	0.0199	
Saturn	63079-03-19 05:31 G		24760268.46	24760268.73	24760269.01	0.0288	0.0014	
Neptune	63086-09-21 11:31 G		24763011.68	24763011.98	24763012.28	0.0088	0.0006	
Jupiter	63096-02-25 00:14 G		24766455.26	24766455.51	24766455.76	0.0501	0.0172	
Uranus	63104-08-06 08:53 G		24769539.66	24769539.87	24769540.11	0.0134	0.0097	
Saturn	63123-04-29 09:07 G		24776379.60	24776379.88	24776380.17	0.0271	0.0104	
Uranus	63146-12-23 23:46 G		24785019.39	24785019.49	24785019.64	0.0144	0.0130	
Saturn	63167-08-14 22:48 G		24792558.20	24792558.45	24792558.72	0.0287	0.0109	
Neptune	63170-05-06 08:10 G		24793553.55	24793553.84	24793554.16	0.0089	0.0035	
Uranus	63189-04-01 23:17 G		24800459.25	24800459.47	24800459.74	0.0134	0.0089	
Saturn	63211-09-23 03:50 G		24808668.36	24808668.66	24808668.97	0.0272	0.0040	

Uranus	63231-08-19 02:38 G	24815938.37	24815938.61	24815938.88	0.0144	0.0065
Pluto	63240-06-17 02:24 G	24819163.30	24819163.60	24819163.95	0.0068	0.0019
Neptune	63250-05-07 10:48 G	24822774.77	24822774.95	24822775.17	0.0088	0.0066
Jupiter	63250-05-22 01:55 G	24822789.35	24822789.58	24822789.82	0.0500	0.0226
Neptune	63252-03-31 11:46 G	24823468.83	24823468.99	24823469.19	0.0088	0.0069
Saturn	63256-01-08 04:19 G	24824846.46	24824846.68	24824846.94	0.0288	0.0148
Saturn	63300-02-17 10:34 G	24840957.64	24840957.94	24840958.25	0.0271	0.0042
Neptune	63333-12-19 00:29 G	24853315.23	24853315.52	24853315.84	0.0089	0.0035
Jupiter	63339-08-20 06:29 G	24855385.69	24855385.77	24855385.85	0.0526	0.0502
Saturn	63344-06-03 22:05 G	24857135.23	24857135.42	24857135.63	0.0287	0.0203
Uranus	63356-08-19 14:10 G	24861594.77	24861595.09	24861595.42	0.0134	0.0020
Saturn	63388-07-13 08:53 G	24873245.58	24873245.87	24873246.17	0.0271	0.0076
Uranus	63399-01-06 16:05 G	24877074.92	24877075.17	24877075.45	0.0144	0.0062
Neptune	63415-11-16 12:43 G	24883231.74	24883232.03	24883232.33	0.0088	0.0011
Saturn	63432-10-28 18:00 G	24889423.08	24889423.25	24889423.43	0.0287	0.0223
Saturn	63476-12-08 07:55 G	24905534.58	24905534.83	24905535.10	0.0272	0.0145
Uranus	63483-09-02 20:10 G	24907994.23	24907994.34	24907994.47	0.0144	0.0131
Pluto	63488-09-25 14:10 G	24909843.87	24909844.09	24909844.38	0.0068	0.0045
Jupiter	63493-11-14 10:48 G	24911719.67	24911719.95	24911720.24	0.0527	0.0011
Neptune	63499-06-29 10:48 G	24913772.69	24913772.95	24913773.21	0.0089	0.0054
Saturn	63521-03-24 21:22 G	24921711.27	24921711.39	24921711.53	0.0287	0.0255
Jupiter	63523-02-08 06:29 G	24922396.52	24922396.77	24922397.03	0.0502	0.0108
Uranus	63524-01-08 03:22 G	24922730.58	24922730.64	24922730.75	0.0134	0.0130
Saturn	63565-05-04 01:55 G	24937822.35	24937822.58	24937822.83	0.0272	0.0170
Neptune	63579-07-02 14:10 G	24942994.86	24942995.09	24942995.36	0.0088	0.0048
Uranus	63608-09-02 12:15 G	24953649.72	24953650.01	24953650.33	0.0134	0.0050
Uranus	63651-01-21 06:00 G	24969130.46	24969130.75	24969131.04	0.0144	0.0002
Saturn	63653-09-28 03:07 G	24970111.50	24970111.63	24970111.79	0.0273	0.0239
Neptune	63663-02-11 07:55 G	24973534.52	24973534.83	24973535.16	0.0089	0.0012
Jupiter	63677-05-04 15:07 G	24978730.94	24978731.13	24978731.33	0.0502	0.0339

Neptune	63745-01-09 18:43 G	25003452.02	25003452.28	25003452.58	0.0088	0.0031
Saturn	63756-04-19 20:10 G	25007570.19	25007570.34	25007570.49	0.0287	0.0241
Uranus	63776-01-20 20:39 G	25014785.10	25014785.36	25014785.67	0.0134	0.0066
Jupiter	63795-10-25 23:46 G	25022003.44	25022003.49	25022003.56	0.0504	0.0489
Saturn	63800-05-30 13:41 G	25023680.96	25023681.07	25023681.19	0.0272	0.0252
Uranus	63818-06-11 14:53 G	25030267.00	25030267.12	25030267.27	0.0144	0.0128
Neptune	63826-09-27 07:55 G	25033296.69	25033296.83	25033297.01	0.0089	0.0078
Neptune	63828-08-22 20:39 G	25033992.24	25033992.36	25033992.55	0.0089	0.0079
Saturn	63844-09-15 17:17 G	25039859.98	25039860.22	25039860.48	0.0286	0.0140
Uranus	63860-09-16 05:46 G	25045704.57	25045704.74	25045704.93	0.0134	0.0113
Saturn	63888-10-24 21:51 G	25055970.19	25055970.41	25055970.66	0.0273	0.0173
Uranus	63903-02-05 18:00 G	25061186.00	25061186.25	25061186.52	0.0144	0.0064
Neptune	63908-08-26 20:24 G	25063215.07	25063215.35	25063215.65	0.0088	0.0026
Jupiter	63920-10-24 18:00 G	25067656.99	25067657.25	25067657.51	0.0525	0.0205
Saturn	63933-02-10 16:34 G	25072148.92	25072149.19	25072149.47	0.0287	0.0073
Jupiter	63950-01-20 06:58 G	25078336.55	25078336.79	25078337.04	0.0504	0.0180
Saturn	63977-03-22 08:24 G	25088259.57	25088259.85	25088260.14	0.0272	0.0088
Neptune	63992-04-06 23:31 G	25093754.16	25093754.48	25093754.81	0.0089	0.0014

65TH MILLENNIUM CE

This is a list of transits of Mars in the 65th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	64021-07-08 18:15 G	25104438.98	25104439.26	25104439.54	0.0286	0.0036		

Uranus	64028-02-03 12:29 G	25106839.70	25106840.02	25106840.35	0.0134	0.0007
Saturn	64065-08-16 09:36 G	25120548.60	25120548.90	25120549.21	0.0273	0.0016
Uranus	64070-06-25 01:12 G	25122322.30	25122322.55	25122322.81	0.0144	0.0070
Neptune	64072-04-10 23:03 G	25122978.39	25122978.46	25122978.59	0.0088	0.0083
Neptune	64074-03-06 03:36 G	25123672.43	25123672.65	25123672.90	0.0088	0.0055
Jupiter	64075-01-18 12:15 G	25123990.76	25123991.01	25123991.27	0.0525	0.0243
Jupiter	64104-04-16 05:03 G	25134670.47	25134670.71	25134670.95	0.0503	0.0208
Saturn	64109-12-03 07:27 G	25136727.55	25136727.81	25136728.09	0.0287	0.0090
Saturn	64154-01-11 23:17 G	25152838.17	25152838.47	25152838.76	0.0272	0.0076
Uranus	64155-02-19 01:41 G	25153241.41	25153241.57	25153241.74	0.0144	0.0118
Neptune	64155-11-21 02:53 G	25153516.37	25153516.62	25153516.91	0.0089	0.0050
Uranus	64195-06-22 17:31 G	25167975.15	25167975.23	25167975.37	0.0135	0.0127
Saturn	64198-04-29 11:17 G	25169016.75	25169016.97	25169017.21	0.0287	0.0165
Neptune	64237-10-21 08:39 G	25183435.55	25183435.86	25183436.16	0.0088	0.0001
Saturn	64242-06-08 06:00 G	25185126.47	25185126.75	25185127.02	0.0272	0.0121
Uranus	64280-02-16 21:07 G	25198894.08	25198894.38	25198894.69	0.0135	0.0046
Saturn	64286-09-23 11:17 G	25201304.77	25201304.97	25201305.19	0.0286	0.0192
Pluto	64320-12-26 20:39 G	25213817.10	25213817.36	25213817.66	0.0075	0.0025
Neptune	64321-06-01 18:43 G	25213974.02	25213974.28	25213974.59	0.0089	0.0044
Uranus	64322-07-10 05:46 G	25214377.45	25214377.74	25214378.03	0.0144	0.0016
Saturn	64330-11-03 09:22 G	25217415.69	25217415.89	25217416.11	0.0273	0.0197
Jupiter	64347-10-04 05:03 G	25223594.55	25223594.71	25223594.88	0.0523	0.0423
Saturn	64375-02-17 17:03 G	25233593.06	25233593.21	25233593.39	0.0286	0.0230
Jupiter	64377-01-01 18:58 G	25234277.04	25234277.29	25234277.53	0.0505	0.0193
Neptune	64401-06-06 11:03 G	25243198.75	25243198.96	25243199.22	0.0088	0.0056
Neptune	64403-05-01 17:46 G	25243893.16	25243893.24	25243893.35	0.0088	0.0083
Saturn	64419-03-29 03:36 G	25249703.48	25249703.65	25249703.83	0.0272	0.0221
Uranus	64447-07-05 23:17 G	25260029.23	25260029.47	25260029.75	0.0135	0.0080
Saturn	64463-07-13 22:05 G	25265881.31	25265881.42	25265881.54	0.0286	0.0260
Neptune	64485-01-14 02:53 G	25273736.32	25273736.62	25273736.95	0.0089	0.0018

Jupiter	64501-12-29 14:10 G	25279928.81	25279929.09	25279929.37	0.0522	0.0105
Jupiter	64531-03-30 07:55 G	25290611.62	25290611.83	25290612.05	0.0505	0.0295
Uranus	64532-03-01 02:39 G	25290948.38	25290948.61	25290948.86	0.0135	0.0091
Saturn	64565-11-27 22:48 G	25303273.40	25303273.45	25303273.53	0.0274	0.0267
Neptune	64566-12-15 20:39 G	25303656.09	25303656.36	25303656.67	0.0088	0.0029
Pluto	64569-04-05 21:51 G	25304498.15	25304498.41	25304498.71	0.0076	0.0026
Uranus	64574-07-23 09:36 G	25306432.62	25306432.90	25306433.19	0.0144	0.0035
Neptune	64648-08-30 10:48 G	25333498.83	25333498.95	25333499.13	0.0089	0.0079
Neptune	64650-07-26 18:58 G	25334194.14	25334194.29	25334194.49	0.0089	0.0076
Saturn	64654-04-24 05:17 G	25335561.56	25335561.72	25335561.89	0.0273	0.0226
Saturn	64698-08-10 02:24 G	25351740.43	25351740.60	25351740.81	0.0285	0.0212
Uranus	64699-07-19 05:03 G	25352083.41	25352083.71	25352084.04	0.0135	0.0034
Neptune	64730-08-01 23:31 G	25363419.20	25363419.48	25363419.79	0.0088	0.0026
Pluto	64732-01-01 16:34 G	25363936.90	25363937.19	25363937.50	0.0068	0.0034
Uranus	64741-12-11 08:24 G	25367568.66	25367568.85	25367569.08	0.0143	0.0102
Saturn	64742-09-19 08:24 G	25367850.60	25367850.85	25367851.09	0.0274	0.0156
Jupiter	64774-09-13 14:10 G	25379533.08	25379533.09	25379533.13	0.0520	0.0518
Saturn	64787-01-04 21:07 G	25384029.15	25384029.38	25384029.63	0.0285	0.0152
Jupiter	64803-12-14 19:55 G	25390217.09	25390217.33	25390217.57	0.0508	0.0221
Neptune	64814-03-11 04:05 G	25393956.36	25393956.67	25393956.99	0.0089	0.0015
Uranus	64826-08-06 09:36 G	25398487.66	25398487.90	25398488.14	0.0143	0.0085
Saturn	64831-02-13 13:12 G	25400139.77	25400140.05	25400140.35	0.0274	0.0079
Saturn	64875-06-02 01:27 G	25416319.27	25416319.56	25416319.84	0.0285	0.0037
Neptune	64894-03-17 00:00 G	25423182.42	25423182.50	25423182.64	0.0088	0.0082
Neptune	64896-02-09 10:05 G	25423876.71	25423876.92	25423877.16	0.0088	0.0059
Saturn	64919-07-11 16:34 G	25432428.89	25432429.19	25432429.49	0.0274	0.0004
Jupiter	64928-12-08 06:29 G	25435866.50	25435866.77	25435867.05	0.0520	0.0090
Uranus	64951-08-01 09:22 G	25444137.57	25444137.89	25444138.21	0.0135	0.0012
Jupiter	64958-03-10 14:53 G	25446550.87	25446551.12	25446551.38	0.0507	0.0169
Saturn	64963-10-27 19:41 G	25448608.04	25448608.32	25448608.61	0.0285	0.0028

Neptune	64977-10-24 13:12 G	25453718.79	25453719.05	25453719.34	0.0089	0.0046
Pluto	64980-04-09 17:03 G	25454616.89	25454617.21	25454617.57	0.0068	0.0010
Uranus	64993-12-24 08:10 G	25459623.58	25459623.84	25459624.13	0.0143	0.0052

66TH MILLENNIUM CE

This is a list of transits of Mars in the 66th millennium CE.

	FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	65007-12-07 09:07 G	25464718.60	25464718.88	25464719.17	0.0274	0.0094			
Saturn	65052-03-24 10:05 G	25480897.67	25480897.92	25480898.18	0.0285	0.0122			
Neptune	65059-09-26 11:17 G	25483639.66	25483639.97	25483640.28	0.0088	0.0004			
Uranus	65078-08-20 10:48 G	25490542.86	25490542.95	25490543.06	0.0143	0.0135			
Jupiter	65083-03-04 19:27 G	25492200.09	25492200.31	25492200.54	0.0521	0.0314			
Saturn	65096-05-01 23:31 G	25497007.25	25497007.48	25497007.75	0.0274	0.0152			
Uranus	65118-12-19 14:53 G	25505272.97	25505273.12	25505273.33	0.0135	0.0111			
Saturn	65140-08-18 16:48 G	25513185.97	25513186.20	25513186.44	0.0285	0.0163			
Neptune	65143-05-06 05:31 G	25514176.46	25514176.73	25514177.01	0.0089	0.0047			
Saturn	65184-09-27 09:22 G	25529296.75	25529296.89	25529297.05	0.0274	0.0237			
Uranus	65203-08-14 17:17 G	25536191.95	25536192.22	25536192.53	0.0135	0.0060			
Neptune	65223-05-12 11:03 G	25543402.73	25543402.96	25543403.24	0.0088	0.0052			
Pluto	65228-07-18 14:24 G	25545296.98	25545297.10	25545297.30	0.0068	0.0060			
Saturn	65229-01-12 05:03 G	25545474.53	25545474.71	25545474.91	0.0285	0.0214			
Jupiter	65230-11-25 07:41 G	25546156.62	25546156.82	25546157.03	0.0509	0.0326			
Uranus	65246-01-07 08:53 G	25551678.57	25551678.87	25551679.17	0.0143	0.0002			

Saturn	65273-02-20 07:41 G	25561584.77	25561584.82	25561584.89	0.0273	0.0267
Neptune	65306-12-19 15:51 G	25573938.85	25573939.16	25573939.48	0.0089	0.0015
Saturn	65317-06-08 08:10 G	25577762.70	25577762.84	25577763.00	0.0285	0.0244
Jupiter	65355-11-18 10:19 G	25591804.69	25591804.93	25591805.18	0.0518	0.0247
Uranus	65371-01-01 02:39 G	25597327.34	25597327.61	25597327.92	0.0135	0.0058
Jupiter	65385-02-19 23:31 G	25602491.24	25602491.48	25602491.73	0.0509	0.0191
Neptune	65388-11-19 21:51 G	25603860.14	25603860.41	25603860.71	0.0088	0.0035
Saturn	65405-11-02 07:55 G	25610050.76	25610050.83	25610050.93	0.0285	0.0272
Uranus	65413-05-28 04:48 G	25612814.65	25612814.70	25612814.80	0.0143	0.0139
Saturn	65419-10-24 08:39 G	25615154.71	25615154.86	25615155.05	0.0275	0.0225
Uranus	65455-08-28 03:36 G	25628246.50	25628246.65	25628246.87	0.0135	0.0111
Neptune	65470-08-04 02:24 G	25633701.47	25633701.60	25633701.80	0.0089	0.0076
Neptune	65472-06-29 05:31 G	25634396.60	25634396.73	25634396.92	0.0089	0.0078
Uranus	65498-01-21 08:10 G	25643733.57	25643733.84	25643734.12	0.0144	0.0049
Saturn	65508-03-19 08:24 G	25647442.65	25647442.85	25647443.07	0.0275	0.0196
Jupiter	65510-02-13 21:51 G	25648139.18	25648139.41	25648139.65	0.0519	0.0277
Saturn	65552-07-04 12:43 G	25663620.92	25663621.03	25663621.15	0.0283	0.0261
Neptune	65552-07-06 20:24 G	25663623.06	25663623.35	25663623.66	0.0088	0.0022
Saturn	65596-08-13 05:17 G	25679731.47	25679731.72	25679731.99	0.0275	0.0136
Uranus	65623-01-14 16:48 G	25689381.88	25689382.20	25689382.52	0.0135	0.0007
Neptune	65636-02-12 17:46 G	25694158.94	25694159.24	25694159.56	0.0089	0.0015
Saturn	65640-11-28 00:29 G	25695909.34	25695909.52	25695909.73	0.0284	0.0210
Jupiter	65657-11-06 09:51 G	25702096.70	25702096.91	25702097.12	0.0512	0.0319
Uranus	65665-06-10 05:46 G	25704869.53	25704869.74	25704870.00	0.0144	0.0088
Saturn	65685-01-07 02:24 G	25712020.32	25712020.60	25712020.90	0.0275	0.0072
Neptune	65716-02-20 14:53 G	25723386.03	25723386.12	25723386.27	0.0088	0.0081
Neptune	65718-01-15 05:17 G	25724080.53	25724080.72	25724080.96	0.0088	0.0063
Saturn	65729-04-26 02:39 G	25728199.34	25728199.61	25728199.89	0.0283	0.0099
Uranus	65750-02-04 11:46 G	25735788.79	25735788.99	25735789.21	0.0144	0.0102
Saturn	65773-06-04 05:03 G	25744309.41	25744309.71	25744310.00	0.0275	0.0003

Jupiter	65782-10-29 07:12 G	25747743.59	25747743.80	25747744.02	0.0516	0.0327
Uranus	65790-06-03 09:36 G	25750517.75	25750517.90	25750518.06	0.0135	0.0117
Neptune	65799-09-28 04:48 G	25753921.46	25753921.70	25753921.99	0.0089	0.0048
Jupiter	65812-02-02 06:58 G	25758430.52	25758430.79	25758431.06	0.0511	0.0093
Saturn	65817-09-20 23:17 G	25760488.18	25760488.47	25760488.76	0.0284	0.0032
Saturn	65861-10-30 21:51 G	25776599.14	25776599.41	25776599.69	0.0275	0.0097
Uranus	65875-01-28 12:43 G	25781436.75	25781437.03	25781437.33	0.0135	0.0054
Neptune	65881-08-31 00:58 G	25783843.23	25783843.54	25783843.86	0.0088	0.0005
Saturn	65906-02-16 21:51 G	25792778.14	25792778.41	25792778.70	0.0284	0.0076
Uranus	65917-06-25 09:36 G	25796924.62	25796924.90	25796925.20	0.0144	0.0029
Jupiter	65937-01-23 18:15 G	25804076.99	25804077.26	25804077.54	0.0517	0.0047
Saturn	65950-03-27 19:27 G	25808888.08	25808888.31	25808888.56	0.0275	0.0164
Neptune	65965-04-08 16:34 G	25814378.92	25814379.19	25814379.47	0.0089	0.0042
Jupiter	65966-04-28 15:51 G	25814764.03	25814764.16	25814764.31	0.0511	0.0437
Saturn	65994-07-13 12:15 G	25825066.76	25825067.01	25825067.27	0.0284	0.0131

67TH MILLENNIUM CE

This is a list of transits of Mars in the 67th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	66038-08-22 11:17 G	25841177.89	25841177.97	25841178.08	0.0275	0.0260		
Uranus	66042-06-17 10:19 G	25842572.64	25842572.93	25842573.23	0.0135	0.0051		
Neptune	66045-04-15 17:46 G	25843606.02	25843606.24	25843606.50	0.0088	0.0056		
Pluto	66060-10-24 18:58 G	25849277.29	25849277.29	25849277.34	0.0075	0.0075		

Saturn	66082-12-07 10:05 G	25857355.71	25857355.92	25857356.12	0.0284	0.0199
Jupiter	66084-10-17 02:10 G	25858035.56	25858035.59	25858035.64	0.0514	0.0507
Jupiter	66091-04-19 10:19 G	25860410.81	25860410.93	25860411.07	0.0516	0.0455
Uranus	66127-02-11 14:39 G	25873491.99	25873492.11	25873492.27	0.0134	0.0120
Neptune	66128-11-22 01:12 G	25874141.27	25874141.55	25874141.87	0.0089	0.0025
Uranus	66169-07-08 15:07 G	25888979.84	25888980.13	25888980.43	0.0144	0.0031
Saturn	66171-05-03 15:36 G	25889643.99	25889644.15	25889644.31	0.0283	0.0236
Saturn	66185-04-23 06:58 G	25894747.67	25894747.79	25894747.92	0.0275	0.0248
Jupiter	66209-10-09 14:53 G	25903682.09	25903682.12	25903682.18	0.0514	0.0506
Neptune	66210-10-26 00:58 G	25904063.26	25904063.54	25904063.85	0.0088	0.0029
Jupiter	66239-01-13 18:00 G	25914369.98	25914370.25	25914370.53	0.0513	0.0026
Saturn	66259-09-27 16:34 G	25921932.11	25921932.19	25921932.30	0.0284	0.0268
Saturn	66273-09-18 04:34 G	25927036.49	25927036.69	25927036.92	0.0276	0.0188
Neptune	66294-06-02 08:10 G	25934598.64	25934598.84	25934599.10	0.0089	0.0062
Uranus	66294-07-01 17:17 G	25934627.91	25934628.22	25934628.54	0.0134	0.0020
Pluto	66309-02-04 06:15 G	25939958.60	25939958.76	25939958.97	0.0075	0.0059
Uranus	66336-11-26 12:58 G	25950115.84	25950116.04	25950116.28	0.0144	0.0098
Saturn	66362-02-12 00:43 G	25959324.30	25959324.53	25959324.76	0.0276	0.0165
Jupiter	66364-01-05 03:36 G	25960016.37	25960016.65	25960016.92	0.0515	0.0010
Neptune	66374-06-10 14:24 G	25963825.83	25963826.10	25963826.41	0.0088	0.0034
Jupiter	66393-04-09 19:41 G	25970704.25	25970704.32	25970704.42	0.0514	0.0485
Uranus	66421-07-23 00:43 G	25981035.32	25981035.53	25981035.76	0.0144	0.0098
Saturn	66450-07-08 16:48 G	25991612.94	25991613.20	25991613.47	0.0277	0.0113
Neptune	66458-01-15 16:48 G	25994360.89	25994361.20	25994361.51	0.0089	0.0005
Uranus	66461-11-18 23:17 G	25995764.23	25995764.47	25995764.76	0.0135	0.0075
Saturn	66494-10-22 06:15 G	26007789.64	26007789.76	26007789.92	0.0282	0.0249
Jupiter	66511-09-29 22:19 G	26013975.37	26013975.43	26013975.51	0.0516	0.0495
Jupiter	66518-04-01 06:58 G	26016350.71	26016350.79	26016350.89	0.0514	0.0481
Saturn	66538-12-03 04:48 G	26023901.42	26023901.70	26023901.99	0.0277	0.0065
Neptune	66539-12-19 19:55 G	26024283.08	26024283.33	26024283.59	0.0088	0.0050

Uranus	66546-07-16 06:00 G	26026683.55	26026683.75	26026683.97	0.0134	0.0099
Pluto	66557-05-15 23:46 G	26030640.33	26030640.49	26030640.67	0.0075	0.0061
Saturn	66583-03-20 01:41 G	26040079.32	26040079.57	26040079.82	0.0282	0.0148
Uranus	66588-12-09 22:34 G	26042171.14	26042171.44	26042171.74	0.0144	0.0028
Neptune	66621-08-31 23:17 G	26054123.32	26054123.47	26054123.67	0.0089	0.0074
Neptune	66623-07-27 19:12 G	26054818.18	26054818.30	26054818.48	0.0089	0.0078
Saturn	66627-04-30 02:24 G	26056190.30	26056190.60	26056190.89	0.0277	0.0003
Jupiter	66636-09-20 10:19 G	26059621.87	26059621.93	26059622.01	0.0512	0.0493
Jupiter	66665-12-24 23:17 G	26070309.19	26070309.47	26070309.74	0.0516	0.0042
Saturn	66671-08-14 19:12 G	26072368.02	26072368.30	26072368.59	0.0282	0.0085
Neptune	66703-08-05 06:15 G	26084045.45	26084045.76	26084046.08	0.0088	0.0013
Uranus	66713-12-04 15:36 G	26087819.84	26087820.15	26087820.47	0.0135	0.0006
Saturn	66715-09-25 13:12 G	26088479.77	26088480.05	26088480.33	0.0277	0.0088
Saturn	66760-01-10 21:22 G	26104658.10	26104658.39	26104658.69	0.0282	0.0033
Neptune	66787-03-12 03:07 G	26114580.32	26114580.63	26114580.94	0.0089	0.0009
Jupiter	66790-12-15 21:07 G	26115955.12	26115955.38	26115955.65	0.0512	0.0130
Saturn	66804-02-19 12:58 G	26120768.80	26120769.04	26120769.28	0.0277	0.0158
Pluto	66805-08-25 17:03 G	26121322.13	26121322.21	26121322.37	0.0075	0.0069
Jupiter	66820-03-20 03:07 G	26126642.42	26126642.63	26126642.87	0.0516	0.0296
Uranus	66840-12-24 08:24 G	26134226.57	26134226.85	26134227.15	0.0144	0.0040
Saturn	66848-06-05 17:03 G	26136946.94	26136947.21	26136947.49	0.0282	0.0098
Neptune	66867-03-19 12:15 G	26143807.89	26143808.01	26143808.17	0.0088	0.0079
Neptune	66869-02-11 09:22 G	26144502.71	26144502.89	26144503.10	0.0088	0.0069
Uranus	66881-04-23 02:39 G	26148956.39	26148956.61	26148956.87	0.0135	0.0086
Saturn	66892-07-16 08:39 G	26153058.78	26153058.86	26153058.96	0.0277	0.0262
Saturn	66936-11-01 00:29 G	26169236.31	26169236.52	26169236.75	0.0282	0.0184
Jupiter	66945-03-11 08:24 G	26172288.61	26172288.85	26172289.10	0.0512	0.0238
Saturn	66950-10-23 15:36 G	26174341.12	26174341.15	26174341.22	0.0277	0.0273
Neptune	66950-10-25 11:03 G	26174342.75	26174342.96	26174343.22	0.0089	0.0059
Uranus	66965-12-18 07:55 G	26179875.62	26179875.83	26179876.09	0.0135	0.0088

68TH MILLENNIUM CE

This is a list of transits of Mars in the 68th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	67008-05-14 08:10	G	26195362.61	26195362.84	26195363.11	0.0143	0.0081	
Saturn	67025-03-28 11:17	G	26201524.81	26201524.97	26201525.15	0.0282	0.0231	
Neptune	67032-09-27 16:19	G	26204264.86	26204265.18	26204265.50	0.0088	0.0005	
Saturn	67039-03-19 22:34	G	26206629.30	26206629.44	26206629.61	0.0277	0.0231	
Jupiter	67092-12-04 07:12	G	26226247.55	26226247.80	26226248.06	0.0518	0.0218	
Uranus	67093-01-07 23:17	G	26226282.32	26226282.47	26226282.65	0.0144	0.0119	
Saturn	67113-08-22 18:00	G	26233813.19	26233813.25	26233813.33	0.0282	0.0274	
Neptune	67116-05-05 13:12	G	26234799.77	26234800.05	26234800.37	0.0089	0.0024	
Saturn	67127-08-15 01:41	G	26238918.34	26238918.57	26238918.81	0.0278	0.0162	
Uranus	67133-05-08 21:07	G	26241012.07	26241012.38	26241012.69	0.0135	0.0002	
Neptune	67196-05-12 21:07	G	26264027.18	26264027.38	26264027.63	0.0088	0.0063	
Neptune	67198-04-07 18:43	G	26264722.27	26264722.28	26264722.36	0.0088	0.0088	
Saturn	67216-01-07 21:36	G	26271206.16	26271206.40	26271206.66	0.0277	0.0140	
Jupiter	67217-11-26 07:27	G	26271894.57	26271894.81	26271895.06	0.0510	0.0198	
Jupiter	67247-03-01 09:36	G	26282581.66	26282581.90	26282582.14	0.0518	0.0261	
Uranus	67260-05-27 23:46	G	26287418.18	26287418.49	26287418.80	0.0143	0.0002	
Neptune	67279-12-18 23:46	G	26294562.23	26294562.49	26294562.76	0.0089	0.0045	
Uranus	67300-09-26 09:22	G	26302148.67	26302148.89	26302149.12	0.0135	0.0093	
Saturn	67304-06-03 11:46	G	26303494.73	26303494.99	26303495.28	0.0278	0.0093	

Saturn	67348-09-15 13:41 G	26319669.98	26319670.07	26319670.19	0.0281	0.0261
Neptune	67361-11-21 00:43 G	26324484.24	26324484.53	26324484.86	0.0088	0.0021
Jupiter	67372-02-21 14:39 G	26328228.89	26328229.11	26328229.34	0.0510	0.0280
Uranus	67385-05-22 12:58 G	26333067.79	26333068.04	26333068.31	0.0135	0.0075
Saturn	67392-10-27 16:34 G	26335782.90	26335783.19	26335783.47	0.0278	0.0057
Uranus	67427-10-16 22:19 G	26348554.28	26348554.43	26348554.59	0.0143	0.0123
Saturn	67437-02-11 01:12 G	26351959.32	26351959.55	26351959.78	0.0280	0.0173
Neptune	67445-06-29 03:07 G	26355019.37	26355019.63	26355019.93	0.0089	0.0038
Saturn	67481-03-24 09:07 G	26368071.59	26368071.88	26368072.17	0.0279	0.0005
Uranus	67512-06-12 13:12 G	26379473.79	26379474.05	26379474.31	0.0143	0.0073
Jupiter	67519-11-16 10:19 G	26382186.70	26382186.93	26382187.18	0.0520	0.0265
Neptune	67525-07-07 04:48 G	26384246.45	26384246.70	26384247.00	0.0088	0.0045
Saturn	67525-07-08 12:58 G	26384247.77	26384248.04	26384248.31	0.0280	0.0121
Uranus	67552-10-10 22:48 G	26394204.16	26394204.45	26394204.77	0.0135	0.0020
Saturn	67569-08-19 12:29 G	26400360.74	26400361.02	26400361.30	0.0278	0.0072
Neptune	67609-02-11 19:27 G	26414782.03	26414782.31	26414782.62	0.0089	0.0027
Saturn	67613-12-03 13:55 G	26416537.79	26416538.08	26416538.38	0.0280	0.0007
Jupiter	67644-11-07 02:24 G	26427834.37	26427834.60	26427834.85	0.0508	0.0240
Saturn	67658-01-13 11:17 G	26432649.73	26432649.97	26432650.23	0.0278	0.0140
Jupiter	67674-02-08 15:07 G	26438519.85	26438520.13	26438520.41	0.0520	0.0087
Uranus	67679-10-30 09:36 G	26440609.61	26440609.90	26440610.19	0.0143	0.0047
Neptune	67691-01-14 10:19 G	26444703.67	26444703.93	26444704.24	0.0088	0.0040
Saturn	67702-04-30 11:46 G	26448826.70	26448826.99	26448827.28	0.0280	0.0064
Pluto	67711-04-21 13:12 G	26452104.78	26452105.05	26452105.40	0.0068	0.0030
Uranus	67720-02-29 06:58 G	26455340.66	26455340.79	26455340.98	0.0135	0.0116
Saturn	67746-06-11 08:24 G	26464939.72	26464939.85	26464939.99	0.0278	0.0245
Neptune	67774-08-23 01:55 G	26475239.35	26475239.58	26475239.82	0.0089	0.0057
Saturn	67790-09-25 04:19 G	26481116.46	26481116.68	26481116.94	0.0281	0.0167
Jupiter	67799-02-01 12:58 G	26484167.77	26484168.04	26484168.30	0.0508	0.0106
Uranus	67804-10-25 08:24 G	26486259.57	26486259.85	26486260.15	0.0135	0.0049

Neptune	67854-08-30 16:19 G	26504465.88	26504466.18	26504466.49	0.0088	0.0026
Saturn	67879-02-19 22:05 G	26513405.26	26513405.42	26513405.61	0.0280	0.0227
Saturn	67893-02-11 13:55 G	26518510.94	26518511.08	26518511.24	0.0278	0.0237
Uranus	67931-11-14 17:31 G	26532664.93	26532665.23	26532665.54	0.0143	0.0021
Neptune	67938-04-08 21:36 G	26535002.09	26535002.40	26535002.70	0.0089	0.0005
Pluto	67959-08-01 14:39 G	26542786.91	26542787.11	26542787.38	0.0068	0.0050
Uranus	67972-03-14 12:58 G	26547395.78	26547396.04	26547396.34	0.0136	0.0055
Saturn	67981-07-10 00:29 G	26550800.28	26550800.52	26550800.76	0.0279	0.0154

69TH MILLENNIUM CE

This is a list of transits of Mars in the 69th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Neptune	68020-03-10 00:00 G	26564923.31	26564923.50	26564923.77	0.0088	0.0063		
Pluto	68045-02-25 06:43 G	26574041.70	26574041.78	26574041.93	0.0076	0.0070		
Uranus	68056-11-07 08:39 G	26578314.69	26578314.86	26578315.07	0.0135	0.0107		
Saturn	68069-12-03 00:43 G	26583088.28	26583088.53	26583088.79	0.0279	0.0128		
Jupiter	68071-10-19 15:36 G	26583773.96	26583774.15	26583774.35	0.0506	0.0338		
Uranus	68099-04-02 09:51 G	26593800.69	26593800.91	26593801.13	0.0143	0.0101		
Jupiter	68101-01-19 20:39 G	26594458.08	26594458.36	26594458.64	0.0523	0.0061		
Neptune	68101-11-22 19:55 G	26594765.14	26594765.33	26594765.55	0.0089	0.0066		
Neptune	68103-10-18 06:15 G	26595459.65	26595459.76	26595459.90	0.0089	0.0082		
Saturn	68114-03-17 06:29 G	26599262.77	26599262.77	26599262.79	0.0279	0.0279		
Saturn	68158-04-29 18:00 G	26615376.98	26615377.25	26615377.53	0.0280	0.0076		

Neptune	68183-10-24 06:15 G	26624685.44	26624685.76	26624686.09	0.0088	0.0002
Uranus	68183-11-27 22:34 G	26624720.22	26624720.44	26624720.70	0.0143	0.0091
Saturn	68202-08-11 00:58 G	26631550.44	26631550.54	26631550.68	0.0279	0.0255
Uranus	68224-03-28 11:17 G	26639450.66	26639450.97	26639451.28	0.0136	0.0002
Jupiter	68226-01-14 22:48 G	26640108.19	26640108.45	26640108.71	0.0506	0.0128
Saturn	68246-09-23 17:31 G	26647664.96	26647665.23	26647665.52	0.0280	0.0051
Jupiter	68255-04-17 15:07 G	26650793.13	26650793.13	26650793.15	0.0522	0.0521
Neptune	68267-06-03 05:03 G	26655222.43	26655222.71	26655223.03	0.0089	0.0021
Saturn	68291-01-05 04:34 G	26663839.47	26663839.69	26663839.93	0.0278	0.0178
Pluto	68293-06-08 11:17 G	26664724.77	26664724.97	26664725.22	0.0076	0.0048
Saturn	68335-02-18 05:03 G	26679953.43	26679953.71	26679954.00	0.0280	0.0007
Neptune	68347-06-09 11:46 G	26684447.79	26684447.99	26684448.23	0.0088	0.0066
Uranus	68351-04-17 09:51 G	26685855.62	26685855.91	26685856.22	0.0142	0.0038
Saturn	68379-06-01 09:07 G	26696127.62	26696127.88	26696128.15	0.0279	0.0135
Uranus	68391-08-16 12:00 G	26700586.82	26700587.00	26700587.20	0.0136	0.0106
Saturn	68423-07-14 22:19 G	26712242.15	26712242.43	26712242.71	0.0280	0.0053
Neptune	68431-01-17 05:31 G	26714985.47	26714985.73	26714986.02	0.0089	0.0038
Saturn	68467-10-27 04:48 G	26728417.40	26728417.70	26728418.00	0.0279	0.0028
Uranus	68476-04-10 07:55 G	26731505.55	26731505.83	26731506.11	0.0136	0.0052
Jupiter	68498-10-01 05:17 G	26739714.51	26739714.72	26739714.94	0.0504	0.0306
Saturn	68511-12-09 15:51 G	26744530.91	26744531.16	26744531.43	0.0280	0.0112
Neptune	68512-12-18 00:15 G	26744905.22	26744905.51	26744905.84	0.0088	0.0027
Jupiter	68527-12-30 21:51 G	26750396.16	26750396.41	26750396.68	0.0525	0.0219
Saturn	68556-03-22 23:17 G	26760706.17	26760706.47	26760706.77	0.0279	0.0038
Neptune	68596-07-27 15:07 G	26775442.91	26775443.13	26775443.41	0.0089	0.0050
Saturn	68600-05-06 08:39 G	26776820.69	26776820.86	26776821.07	0.0280	0.0211
Uranus	68603-05-01 06:29 G	26777910.47	26777910.77	26777911.09	0.0142	0.0021
Uranus	68643-08-30 07:27 G	26792641.54	26792641.81	26792642.10	0.0136	0.0057
Saturn	68644-08-18 20:24 G	26792996.10	26792996.35	26792996.61	0.0279	0.0148
Jupiter	68652-12-26 16:05 G	26796047.91	26796048.17	26796048.44	0.0504	0.0034

Neptune	68676-08-02 06:15 G	26804667.47	26804667.76	26804668.07	0.0088	0.0036
Jupiter	68682-03-26 21:51 G	26806730.17	26806730.41	26806730.66	0.0524	0.0267
Saturn	68688-09-30 05:17 G	26809109.70	26809109.72	26809109.78	0.0280	0.0277
Uranus	68728-04-24 23:17 G	26823560.28	26823560.47	26823560.69	0.0136	0.0099
Saturn	68733-01-13 18:15 G	26825285.08	26825285.26	26825285.45	0.0279	0.0218
Saturn	68747-01-08 01:41 G	26830392.50	26830392.57	26830392.68	0.0280	0.0265
Neptune	68760-03-13 19:55 G	26835206.04	26835206.33	26835206.64	0.0089	0.0009
Uranus	68770-09-17 11:46 G	26839045.80	26839045.99	26839046.21	0.0142	0.0109
Pluto	68788-02-09 16:34 G	26845399.94	26845400.19	26845400.45	0.0076	0.0037
Jupiter	68807-03-23 12:00 G	26852381.87	26852382.00	26852382.15	0.0504	0.0425
Saturn	68835-06-04 19:12 G	26862682.09	26862682.30	26862682.54	0.0281	0.0170
Neptune	68842-02-10 20:24 G	26865125.14	26865125.35	26865125.63	0.0088	0.0059
Uranus	68855-05-13 22:34 G	26869965.20	26869965.44	26869965.73	0.0142	0.0077
Uranus	68895-09-12 00:00 G	26884696.20	26884696.50	26884696.81	0.0136	0.0012
Neptune	68923-10-28 23:03 G	26894969.29	26894969.46	26894969.69	0.0089	0.0067
Saturn	68923-10-30 01:41 G	26894970.33	26894970.57	26894970.82	0.0280	0.0133
Jupiter	68925-09-12 19:55 G	26895654.20	26895654.33	26895654.47	0.0502	0.0424
Neptune	68925-09-22 06:00 G	26895663.66	26895663.75	26895663.92	0.0089	0.0080
Jupiter	68954-12-08 22:05 G	26906333.34	26906333.42	26906333.53	0.0527	0.0496
Saturn	68968-02-08 13:27 G	26911142.96	26911143.06	26911143.17	0.0278	0.0259

70TH MILLENNIUM CE

This is a list of transits of Mars in the 70th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Neptune	69005-09-27 04:19 G	26924887.35	26924887.68	26924888.00	0.0088	0.0003
Saturn	69012-03-25 23:46 G	26927259.23	26927259.49	26927259.77	0.0281	0.0074
Uranus	69022-10-01 00:58 G	26931100.26	26931100.54	26931100.84	0.0142	0.0059
Saturn	69056-07-04 09:36 G	26943430.74	26943430.90	26943431.08	0.0278	0.0231
Uranus	69063-01-31 01:27 G	26945832.45	26945832.56	26945832.71	0.0136	0.0122
Jupiter	69079-12-09 00:43 G	26951988.27	26951988.53	26951988.80	0.0502	0.0018
Neptune	69089-05-08 10:34 G	26955426.67	26955426.94	26955427.25	0.0089	0.0022
Saturn	69100-08-19 22:19 G	26959547.15	26959547.43	26959547.71	0.0281	0.0051
Uranus	69107-05-28 14:10 G	26962019.97	26962020.09	26962020.25	0.0142	0.0128
Jupiter	69109-03-06 18:58 G	26962668.01	26962668.29	26962668.57	0.0526	0.0119
Saturn	69144-11-29 07:27 G	26975719.57	26975719.81	26975720.07	0.0277	0.0162
Uranus	69147-09-26 16:48 G	26976750.91	26976751.20	26976751.50	0.0136	0.0032
Neptune	69169-05-12 07:55 G	26984649.64	26984649.83	26984650.08	0.0088	0.0066
Saturn	69189-01-13 07:41 G	26991835.54	26991835.82	26991836.10	0.0282	0.0012
Saturn	69233-04-24 04:34 G	27008007.43	27008007.69	27008007.97	0.0277	0.0132
Jupiter	69234-03-05 08:53 G	27008322.79	27008322.87	27008322.97	0.0502	0.0471
Neptune	69252-12-22 17:46 G	27015189.98	27015190.24	27015190.53	0.0089	0.0036
Uranus	69274-10-13 17:03 G	27023154.89	27023155.21	27023155.52	0.0142	0.0002
Saturn	69277-06-08 17:03 G	27024123.94	27024124.21	27024124.50	0.0281	0.0032
Pluto	69282-10-13 01:41 G	27026076.32	27026076.57	27026076.86	0.0076	0.0027
Uranus	69315-02-13 20:24 G	27037887.11	27037887.35	27037887.62	0.0136	0.0075
Saturn	69321-09-19 17:17 G	27040296.92	27040297.22	27040297.53	0.0277	0.0036
Neptune	69334-11-21 00:43 G	27045107.24	27045107.53	27045107.86	0.0088	0.0030
Jupiter	69352-08-26 00:29 G	27051595.34	27051595.52	27051595.72	0.0500	0.0347
Saturn	69365-11-03 05:17 G	27056412.45	27056412.72	27056412.99	0.0282	0.0079
Uranus	69399-10-09 12:00 G	27068805.76	27068806.00	27068806.26	0.0136	0.0078
Saturn	69410-02-14 06:15 G	27072585.45	27072585.76	27072586.07	0.0277	0.0022
Neptune	69418-07-04 04:19 G	27075647.46	27075647.68	27075647.95	0.0089	0.0052
Uranus	69442-03-02 15:22 G	27084290.08	27084290.14	27084290.26	0.0142	0.0136

Pluto	69443-08-02 13:12 G	27084807.89	27084808.05	27084808.25	0.0068	0.0057
Saturn	69454-03-31 15:22 G	27088701.92	27088702.14	27088702.37	0.0282	0.0166
Neptune	69498-07-06 05:03 G	27104869.41	27104869.71	27104870.02	0.0088	0.0033
Saturn	69498-07-12 04:48 G	27104875.44	27104875.70	27104875.98	0.0277	0.0135
Jupiter	69506-11-21 16:05 G	27107928.91	27107929.17	27107929.43	0.0500	0.0005
Uranus	69526-10-28 05:31 G	27115209.44	27115209.73	27115210.03	0.0142	0.0048
Jupiter	69536-02-14 00:15 G	27118605.23	27118605.51	27118605.79	0.0528	0.0127
Saturn	69542-08-26 11:03 G	27120990.80	27120990.96	27120991.12	0.0281	0.0230
Uranus	69567-02-27 18:58 G	27129942.01	27129942.29	27129942.60	0.0136	0.0028
Neptune	69582-02-17 11:17 G	27135410.67	27135410.97	27135411.27	0.0089	0.0006
Saturn	69586-12-07 04:48 G	27137164.52	27137164.70	27137164.92	0.0277	0.0211
Uranus	69651-10-23 11:03 G	27160860.85	27160860.96	27160861.08	0.0136	0.0125
Jupiter	69661-02-14 10:34 G	27164262.77	27164262.94	27164263.12	0.0501	0.0371
Neptune	69664-01-14 20:53 G	27165327.14	27165327.37	27165327.61	0.0088	0.0062
Saturn	69689-04-29 12:00 G	27174563.83	27174564.00	27174564.19	0.0282	0.0211
Jupiter	69690-05-09 04:34 G	27174938.45	27174938.69	27174938.94	0.0529	0.0266
Uranus	69694-03-15 03:51 G	27176344.43	27176344.66	27176344.94	0.0142	0.0085
Uranus	69734-07-18 03:51 G	27191078.58	27191078.66	27191078.75	0.0136	0.0129
Neptune	69745-10-03 18:29 G	27195174.07	27195174.27	27195174.48	0.0089	0.0064
Neptune	69747-08-28 20:24 G	27195868.25	27195868.35	27195868.49	0.0089	0.0081
Saturn	69777-09-24 01:27 G	27206852.34	27206852.56	27206852.80	0.0282	0.0163
Uranus	69778-11-09 19:12 G	27207264.09	27207264.30	27207264.53	0.0142	0.0102
Jupiter	69779-08-07 23:46 G	27207535.40	27207535.49	27207535.60	0.0498	0.0461
Uranus	69819-03-13 19:41 G	27221997.04	27221997.32	27221997.63	0.0136	0.0025
Saturn	69822-01-02 13:12 G	27223022.91	27223023.05	27223023.22	0.0276	0.0240
Neptune	69827-08-30 21:36 G	27225089.08	27225089.40	27225089.74	0.0088	0.0003
Saturn	69866-02-19 07:55 G	27239141.57	27239141.83	27239142.10	0.0282	0.0089
Saturn	69910-05-29 14:53 G	27255310.93	27255311.12	27255311.35	0.0277	0.0202
Neptune	69911-04-15 04:05 G	27255631.38	27255631.67	27255631.96	0.0089	0.0021
Jupiter	69933-11-03 00:43 G	27263869.27	27263869.53	27263869.79	0.0498	0.0053

Uranus	69946-03-29 17:31 G	27268398.92	27268399.23	27268399.54	0.0142	0.0030
Saturn	69954-07-16 09:36 G	27271429.64	27271429.90	27271430.18	0.0282	0.0063
Jupiter	69963-01-22 17:46 G	27274542.06	27274542.24	27274542.42	0.0531	0.0415
Uranus	69986-08-01 08:10 G	27283133.61	27283133.84	27283134.11	0.0136	0.0074
Neptune	69991-04-14 20:24 G	27284851.15	27284851.35	27284851.59	0.0088	0.0067
Saturn	69998-10-23 12:29 G	27287599.75	27287600.02	27287600.29	0.0276	0.0133

71ST MILLENNIUM CE

This is a list of transits of Mars in the 71st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	70023-11-08 21:07 G		27296747.14	27296747.38	27296747.64	0.0076	0.0039	
Saturn	70042-12-09 20:53 G		27303718.09	27303718.37	27303718.65	0.0283	0.0021	
Uranus	70071-03-27 01:12 G		27314052.33	27314052.55	27314052.82	0.0136	0.0079	
Neptune	70074-11-28 08:39 G		27315394.62	27315394.86	27315395.15	0.0089	0.0039	
Saturn	70087-03-18 06:15 G		27319887.49	27319887.76	27319888.06	0.0276	0.0106	
Jupiter	70088-01-28 08:53 G		27320203.71	27320203.87	27320204.03	0.0499	0.0389	
Jupiter	70117-04-18 19:12 G		27330876.02	27330876.30	27330876.58	0.0531	0.0106	
Saturn	70131-05-06 00:58 G		27336006.26	27336006.54	27336006.82	0.0283	0.0012	
Neptune	70156-10-23 10:48 G		27345308.65	27345308.95	27345309.28	0.0088	0.0028	
Saturn	70175-08-13 12:58 G		27352176.73	27352177.04	27352177.35	0.0276	0.0020	
Pluto	70184-08-25 08:39 G		27355476.52	27355476.86	27355477.21	0.0068	0.0002	
Uranus	70198-04-11 06:58 G		27360453.49	27360453.79	27360454.12	0.0142	0.0026	
Jupiter	70206-07-22 11:31 G		27363476.81	27363476.98	27363477.15	0.0497	0.0373	

Saturn	70219-09-30 06:58 G	27368294.52	27368294.79	27368295.07	0.0283	0.0048
Uranus	70238-08-15 16:19 G	27375188.89	27375189.18	27375189.48	0.0136	0.0017
Neptune	70240-06-08 14:10 G	27375851.86	27375852.09	27375852.37	0.0089	0.0045
Saturn	70264-01-07 17:17 G	27384464.91	27384465.22	27384465.53	0.0276	0.0026
Saturn	70308-02-25 07:27 G	27400583.57	27400583.81	27400584.07	0.0283	0.0118
Neptune	70320-06-08 06:00 G	27405070.46	27405070.75	27405071.06	0.0088	0.0040
Saturn	70352-06-04 11:03 G	27416754.69	27416754.96	27416755.24	0.0276	0.0132
Jupiter	70360-10-16 07:41 G	27419810.56	27419810.82	27419811.08	0.0497	0.0007
Uranus	70365-08-29 06:43 G	27421588.56	27421588.78	27421589.02	0.0142	0.0099
Saturn	70396-07-20 22:05 G	27432872.21	27432872.42	27432872.65	0.0283	0.0174
Neptune	70404-01-23 19:41 G	27435615.03	27435615.32	27435615.62	0.0089	0.0017
Uranus	70406-01-03 11:03 G	27436325.80	27436325.96	27436326.17	0.0136	0.0106
Pluto	70431-01-16 03:22 G	27445469.40	27445469.64	27445469.93	0.0068	0.0043
Saturn	70440-10-29 07:12 G	27449043.61	27449043.80	27449044.03	0.0276	0.0204
Uranus	70450-04-25 02:10 G	27452508.36	27452508.59	27452508.85	0.0142	0.0091
Saturn	70484-12-15 19:27 G	27465162.28	27465162.31	27465162.37	0.0283	0.0279
Neptune	70485-12-16 17:03 G	27465527.96	27465528.21	27465528.49	0.0088	0.0053
Uranus	70490-08-29 06:15 G	27467244.49	27467244.76	27467245.04	0.0136	0.0050
Jupiter	70515-01-11 01:41 G	27476144.40	27476144.57	27476144.76	0.0497	0.0356
Saturn	70543-03-26 01:41 G	27486445.52	27486445.57	27486445.65	0.0283	0.0274
Jupiter	70544-03-26 21:07 G	27486812.13	27486812.38	27486812.64	0.0533	0.0257
Neptune	70567-09-08 22:48 G	27495378.33	27495378.45	27495378.59	0.0089	0.0079
Neptune	70569-08-02 21:51 G	27496072.23	27496072.41	27496072.64	0.0089	0.0064
Uranus	70617-09-12 00:58 G	27513643.24	27513643.54	27513643.86	0.0142	0.0035
Saturn	70631-08-20 20:10 G	27518734.17	27518734.34	27518734.52	0.0283	0.0216
Jupiter	70633-07-03 19:41 G	27519417.23	27519417.32	27519417.42	0.0495	0.0458
Neptune	70649-08-01 08:53 G	27525289.55	27525289.87	27525290.21	0.0088	0.0017
Uranus	70658-01-18 06:00 G	27528381.48	27528381.75	27528382.05	0.0136	0.0036
Saturn	70675-11-26 00:29 G	27534902.36	27534902.52	27534902.73	0.0275	0.0223
Pluto	70677-06-08 07:41 G	27535462.82	27535462.82	27535462.87	0.0068	0.0068

Jupiter	70698-06-21 21:07 G	27543146.13	27543146.38	27543146.64	0.0532	0.0266
Saturn	70720-01-16 10:34 G	27551023.69	27551023.94	27551024.19	0.0283	0.0128
Neptune	70733-03-20 00:43 G	27555835.23	27555835.53	27555835.83	0.0089	0.0001
Uranus	70742-09-14 01:12 G	27559300.42	27559300.55	27559300.70	0.0136	0.0119
Saturn	70764-04-21 10:48 G	27567190.72	27567190.95	27567191.21	0.0276	0.0170
Jupiter	70787-09-28 15:07 G	27575750.88	27575751.13	27575751.38	0.0495	0.0089
Saturn	70808-06-10 18:00 G	27583311.99	27583312.25	27583312.52	0.0283	0.0091
Neptune	70813-03-15 20:53 G	27585051.35	27585051.37	27585051.43	0.0088	0.0088
Neptune	70815-02-09 17:31 G	27585747.08	27585747.23	27585747.44	0.0088	0.0075
Uranus	70825-06-08 07:27 G	27589518.70	27589518.81	27589518.97	0.0136	0.0120
Saturn	70852-09-15 10:34 G	27599479.65	27599479.94	27599480.24	0.0275	0.0097
Uranus	70869-09-25 02:10 G	27605698.29	27605698.59	27605698.91	0.0142	0.0037
Neptune	70896-11-02 02:53 G	27615598.42	27615598.62	27615598.82	0.0089	0.0064
Saturn	70896-11-04 10:34 G	27615600.66	27615600.94	27615601.21	0.0284	0.0042
Neptune	70898-09-27 00:29 G	27616292.40	27616292.52	27616292.66	0.0089	0.0079
Uranus	70910-02-02 03:07 G	27620437.35	27620437.63	27620437.92	0.0136	0.0037
Pluto	70923-10-30 21:22 G	27625456.37	27625456.39	27625456.47	0.0068	0.0067
Saturn	70941-02-09 04:34 G	27631767.39	27631767.69	27631767.99	0.0275	0.0069
Jupiter	70941-12-23 20:39 G	27632085.17	27632085.36	27632085.56	0.0496	0.0331
Neptune	70978-09-24 06:00 G	27645508.42	27645508.75	27645509.09	0.0088	0.0003
Saturn	70985-03-31 12:58 G	27647888.76	27647889.04	27647889.32	0.0284	0.0014

72ND MILLENNIUM CE

This is a list of transits of Mars in the 72nd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Saturn	71029-07-07 06:15 G	27664056.45	27664056.76	27664057.08	0.0275	0.0010
Uranus	71037-02-12 06:15 G	27666833.51	27666833.76	27666834.04	0.0142	0.0079
Jupiter	71060-06-16 07:55 G	27675358.68	27675358.83	27675358.99	0.0494	0.0393
Neptune	71062-05-14 02:53 G	27676055.34	27676055.62	27676055.92	0.0089	0.0014
Saturn	71073-08-25 15:51 G	27680176.89	27680177.16	27680177.44	0.0284	0.0016
Uranus	71077-06-23 07:27 G	27681574.54	27681574.81	27681575.09	0.0136	0.0044
Saturn	71117-12-01 03:22 G	27696344.33	27696344.64	27696344.95	0.0275	0.0045
Uranus	71121-10-10 04:19 G	27697753.50	27697753.68	27697753.91	0.0142	0.0109
Jupiter	71125-06-01 08:53 G	27699083.59	27699083.87	27699084.16	0.0534	0.0118
Neptune	71142-05-09 15:07 G	27705269.96	27705270.13	27705270.38	0.0089	0.0070
Saturn	71162-01-20 07:27 G	27712465.55	27712465.81	27712466.08	0.0284	0.0069
Uranus	71162-02-17 04:05 G	27712493.52	27712493.67	27712493.87	0.0136	0.0111
Pluto	71170-03-23 16:19 G	27715450.00	27715450.18	27715450.42	0.0068	0.0054
Saturn	71206-04-27 15:36 G	27728633.89	27728634.15	27728634.43	0.0275	0.0143
Jupiter	71214-09-11 10:05 G	27731692.66	27731692.92	27731693.18	0.0494	0.0003
Neptune	71225-12-28 05:03 G	27735818.50	27735818.71	27735818.98	0.0089	0.0052
Uranus	71244-11-11 12:58 G	27742711.95	27742712.04	27742712.16	0.0137	0.0127
Saturn	71250-06-15 15:51 G	27744753.92	27744754.16	27744754.43	0.0284	0.0113
Uranus	71289-02-25 07:41 G	27758888.49	27758888.82	27758889.14	0.0142	0.0009
Saturn	71294-09-21 06:58 G	27760922.60	27760922.79	27760923.01	0.0275	0.0208
Neptune	71307-11-17 23:03 G	27765727.15	27765727.46	27765727.81	0.0089	0.0021
Uranus	71329-07-08 07:41 G	27773630.54	27773630.82	27773631.12	0.0136	0.0028
Saturn	71338-11-11 06:43 G	27777043.61	27777043.78	27777043.98	0.0284	0.0206
Jupiter	71368-12-06 07:41 G	27788026.65	27788026.82	27788027.00	0.0494	0.0366
Neptune	71391-07-08 04:48 G	27796275.42	27796275.70	27796275.99	0.0089	0.0026
Pluto	71416-08-14 20:39 G	27805444.05	27805444.36	27805444.71	0.0068	0.0018
Saturn	71427-04-08 03:51 G	27809332.57	27809332.66	27809332.74	0.0284	0.0269
Uranus	71456-07-15 13:12 G	27820023.90	27820024.05	27820024.25	0.0141	0.0119

Neptune	71471-07-02 06:43 G	27825488.52	27825488.78	27825489.06	0.0089	0.0054
Jupiter	71487-05-30 07:41 G	27831299.71	27831299.82	27831299.96	0.0492	0.0427
Uranus	71496-11-26 11:03 G	27834767.70	27834767.96	27834768.23	0.0137	0.0056
Saturn	71529-10-19 02:39 G	27846781.42	27846781.61	27846781.82	0.0275	0.0212
Uranus	71541-03-12 19:12 G	27850944.04	27850944.30	27850944.58	0.0142	0.0077
Jupiter	71552-05-08 08:53 G	27855018.67	27855018.87	27855019.08	0.0536	0.0382
Neptune	71555-02-22 10:34 G	27856038.68	27856038.94	27856039.21	0.0089	0.0038
Saturn	71573-12-11 11:31 G	27862905.79	27862905.98	27862906.19	0.0284	0.0190
Uranus	71581-07-23 06:00 G	27865686.57	27865686.75	27865686.97	0.0136	0.0100
Saturn	71618-03-14 21:51 G	27879070.16	27879070.41	27879070.70	0.0275	0.0146
Neptune	71637-01-09 12:58 G	27885945.76	27885946.04	27885946.38	0.0089	0.0036
Jupiter	71641-08-23 22:48 G	27887633.20	27887633.45	27887633.71	0.0492	0.0092
Saturn	71662-05-07 02:24 G	27895194.37	27895194.60	27895194.84	0.0284	0.0141
Pluto	71663-01-06 03:07 G	27895438.32	27895438.63	27895438.96	0.0068	0.0025
Jupiter	71706-08-03 01:27 G	27911352.28	27911352.56	27911352.86	0.0536	0.0113
Saturn	71706-08-10 03:36 G	27911359.34	27911359.65	27911359.96	0.0274	0.0062
Uranus	71708-07-29 23:17 G	27912079.16	27912079.47	27912079.79	0.0141	0.0035
Neptune	71720-09-01 11:31 G	27916495.74	27916495.98	27916496.26	0.0089	0.0041
Uranus	71748-12-11 09:22 G	27926823.60	27926823.89	27926824.18	0.0137	0.0014
Saturn	71750-10-02 02:24 G	27927483.34	27927483.60	27927483.87	0.0285	0.0078
Saturn	71795-01-03 02:39 G	27943647.29	27943647.61	27943647.92	0.0275	0.0025
Jupiter	71795-11-19 00:29 G	27943967.32	27943967.52	27943967.73	0.0493	0.0298
Neptune	71800-08-24 19:41 G	27945707.03	27945707.32	27945707.64	0.0089	0.0039
Saturn	71839-02-26 06:43 G	27959771.51	27959771.78	27959772.05	0.0285	0.0048
Saturn	71883-05-31 03:51 G	27975936.36	27975936.66	27975936.98	0.0274	0.0055
Neptune	71884-04-17 19:27 G	27976259.05	27976259.31	27976259.61	0.0089	0.0022
Jupiter	71914-05-13 17:17 G	27987241.09	27987241.22	27987241.37	0.0491	0.0404
Uranus	71916-05-02 09:22 G	27987960.66	27987960.89	27987961.15	0.0137	0.0075
Saturn	71927-07-23 10:19 G	27992059.66	27992059.93	27992060.20	0.0285	0.0017
Uranus	71960-08-13 01:55 G	28004134.29	28004134.58	28004134.91	0.0141	0.0041

Neptune	71966-03-05 04:05 G	28006164.43	28006164.67	28006164.98	0.0089	0.0053
Saturn	71971-10-24 20:10 G	28008224.05	28008224.34	28008224.65	0.0274	0.0084
Pluto	71995-01-11 17:31 G	28016703.96	28016704.23	28016704.52	0.0077	0.0023
Uranus	72000-12-25 22:34 G	28018879.22	28018879.44	28018879.71	0.0137	0.0074

73RD MILLENNIUM CE

This is a list of transits of Mars in the 73rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	72015-12-16 19:27 G		28024348.04	28024348.31	28024348.58	0.0285	0.0022	
Neptune	72047-12-03 04:05 G		28036022.58	28036022.67	28036022.81	0.0089	0.0082	
Neptune	72049-10-26 22:34 G		28036716.23	28036716.44	28036716.66	0.0089	0.0059	
Saturn	72060-03-20 01:27 G		28040513.32	28040513.56	28040513.81	0.0274	0.0170	
Jupiter	72068-08-06 22:48 G		28043575.19	28043575.45	28043575.70	0.0491	0.0006	
Saturn	72104-05-11 22:05 G		28056636.16	28056636.42	28056636.69	0.0285	0.0054	
Uranus	72127-12-31 03:22 G		28065269.37	28065269.64	28065269.94	0.0141	0.0070	
Neptune	72129-10-17 12:15 G		28065925.69	28065926.01	28065926.35	0.0089	0.0021	
Jupiter	72133-07-11 23:03 G		28067289.17	28067289.46	28067289.75	0.0538	0.0109	
Saturn	72148-08-14 07:41 G		28072801.65	28072801.82	28072802.01	0.0274	0.0222	
Uranus	72168-05-15 19:27 G		28080016.03	28080016.31	28080016.60	0.0137	0.0018	
Saturn	72192-10-06 02:53 G		28088925.39	28088925.62	28088925.87	0.0285	0.0131	
Uranus	72212-08-27 04:19 G		28096189.51	28096189.68	28096189.88	0.0141	0.0116	
Neptune	72213-06-13 08:39 G		28096479.57	28096479.86	28096480.15	0.0089	0.0001	
Jupiter	72222-11-03 00:00 G		28099909.34	28099909.50	28099909.66	0.0492	0.0387	

Pluto	72241-06-06 08:10 G	28106699.76	28106699.84	28106700.00	0.0076	0.0070
Uranus	72253-01-09 11:03 G	28110934.89	28110934.96	28110935.07	0.0137	0.0130
Saturn	72281-03-02 18:29 G	28121214.07	28121214.27	28121214.49	0.0285	0.0186
Jupiter	72287-10-06 17:31 G	28123623.05	28123623.23	28123623.44	0.0537	0.0402
Neptune	72295-04-28 00:29 G	28126383.34	28126383.52	28126383.72	0.0089	0.0073
Uranus	72335-10-05 14:53 G	28141152.98	28141153.12	28141153.31	0.0137	0.0113
Jupiter	72341-04-26 06:00 G	28143182.60	28143182.75	28143182.92	0.0490	0.0378
Neptune	72377-01-27 20:24 G	28156243.16	28156243.35	28156243.59	0.0089	0.0060
Neptune	72378-12-22 14:10 G	28156936.99	28156937.09	28156937.22	0.0089	0.0081
Uranus	72380-01-13 21:22 G	28157324.07	28157324.39	28157324.72	0.0141	0.0004
Saturn	72383-09-10 17:17 G	28158660.03	28158660.22	28158660.44	0.0274	0.0207
Uranus	72420-05-30 04:48 G	28172071.44	28172071.70	28172072.00	0.0137	0.0035
Saturn	72427-11-06 06:00 G	28174787.70	28174787.75	28174787.83	0.0285	0.0275
Neptune	72458-12-10 11:03 G	28186144.63	28186144.96	28186145.31	0.0089	0.0004
Saturn	72472-02-04 20:39 G	28190949.09	28190949.36	28190949.65	0.0275	0.0127
Jupiter	72495-07-20 17:17 G	28199515.96	28199516.22	28199516.47	0.0490	0.0066
Saturn	72516-04-02 03:07 G	28207076.45	28207076.63	28207076.81	0.0285	0.0215
Neptune	72542-08-08 01:41 G	28216700.30	28216700.57	28216700.87	0.0089	0.0023
Uranus	72547-06-01 12:58 G	28218458.89	28218459.04	28218459.23	0.0141	0.0121
Saturn	72560-07-02 07:41 G	28223238.51	28223238.82	28223239.14	0.0274	0.0033
Uranus	72587-10-18 20:10 G	28233208.09	28233208.34	28233208.60	0.0138	0.0064
Saturn	72604-08-28 12:00 G	28239365.76	28239366.00	28239366.24	0.0285	0.0134
Neptune	72622-07-25 21:51 G	28245906.21	28245906.41	28245906.66	0.0089	0.0066
Uranus	72632-01-27 14:10 G	28249378.82	28249379.09	28249379.40	0.0141	0.0065
Pluto	72646-09-17 06:15 G	28254725.43	28254725.76	28254726.09	0.0068	0.0018
Saturn	72648-11-26 13:41 G	28255526.76	28255527.07	28255527.39	0.0274	0.0015
Jupiter	72649-10-15 13:12 G	28255849.85	28255850.05	28255850.26	0.0490	0.0289
Uranus	72672-06-13 06:29 G	28264126.54	28264126.77	28264127.02	0.0137	0.0080
Saturn	72693-01-21 21:36 G	28271654.15	28271654.40	28271654.67	0.0285	0.0095
Neptune	72706-03-25 16:19 G	28276463.93	28276464.18	28276464.46	0.0089	0.0035

Jupiter	72714-09-13 23:03 G	28279558.16	28279558.46	28279558.76	0.0539	0.0033
Saturn	72737-04-23 17:31 G	28287815.94	28287816.23	28287816.53	0.0273	0.0100
Jupiter	72768-04-08 07:55 G	28299123.70	28299123.83	28299123.98	0.0489	0.0409
Saturn	72781-06-18 06:15 G	28303942.50	28303942.76	28303943.03	0.0285	0.0056
Neptune	72788-02-03 15:22 G	28306363.82	28306364.14	28306364.46	0.0089	0.0032
Uranus	72799-06-15 04:19 G	28310513.38	28310513.68	28310513.99	0.0141	0.0055
Saturn	72825-09-16 10:05 G	28320103.65	28320103.92	28320104.21	0.0274	0.0130
Uranus	72839-11-01 23:17 G	28325263.19	28325263.47	28325263.76	0.0137	0.0019
Saturn	72869-11-11 12:15 G	28336230.74	28336231.01	28336231.28	0.0285	0.0023
Neptune	72871-10-02 23:31 G	28336921.26	28336921.48	28336921.75	0.0089	0.0049
Uranus	72884-02-09 00:58 G	28341433.42	28341433.54	28341433.73	0.0141	0.0124
Saturn	72914-02-11 11:46 G	28352392.81	28352392.99	28352393.20	0.0273	0.0213
Jupiter	72922-07-04 15:07 G	28355457.87	28355458.13	28355458.38	0.0489	0.0006
Uranus	72924-06-27 10:48 G	28356181.85	28356181.95	28356182.09	0.0137	0.0124
Neptune	72951-09-18 03:51 G	28366125.36	28366125.66	28366125.99	0.0089	0.0036
Saturn	72958-04-07 11:03 G	28368518.69	28368518.96	28368519.23	0.0285	0.0002
Pluto	72978-09-26 06:43 G	28375995.50	28375995.78	28375996.08	0.0077	0.0017

74TH MILLENNIUM CE

This is a list of transits of Mars in the 74th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	73002-07-08 11:31 G	28384680.88	28384680.98	28384681.11	0.0273	0.0254		
Uranus	73007-03-23 16:05 G	28386400.04	28386400.17	28386400.34	0.0138	0.0118		

Neptune	73035-05-20 16:19 G	28396684.89	28396685.18	28396685.47	0.0089	0.0008
Saturn	73046-09-02 06:15 G	28400807.50	28400807.76	28400808.03	0.0285	0.0059
Uranus	73051-06-28 08:39 G	28402567.53	28402567.86	28402568.20	0.0141	0.0004
Jupiter	73076-09-28 20:53 G	28411792.23	28411792.37	28411792.51	0.0489	0.0406
Uranus	73091-11-16 01:55 G	28417318.31	28417318.58	28417318.87	0.0138	0.0025
Neptune	73117-03-29 23:17 G	28426583.26	28426583.47	28426583.73	0.0089	0.0064
Saturn	73135-01-27 15:36 G	28433095.91	28433096.15	28433096.41	0.0285	0.0102
Jupiter	73141-08-21 23:17 G	28435494.26	28435494.47	28435494.69	0.0540	0.0374
Jupiter	73195-03-23 10:34 G	28455065.75	28455065.94	28455066.13	0.0488	0.0327
Neptune	73199-01-04 07:55 G	28456448.65	28456448.83	28456449.06	0.0089	0.0063
Neptune	73200-11-28 00:15 G	28457142.39	28457142.51	28457142.67	0.0089	0.0077
Uranus	73218-11-13 18:00 G	28463702.10	28463702.25	28463702.41	0.0140	0.0124
Saturn	73223-06-24 08:24 G	28465385.67	28465385.85	28465386.06	0.0285	0.0199
Saturn	73237-08-02 04:05 G	28470538.47	28470538.67	28470538.89	0.0274	0.0203
Uranus	73259-04-05 17:17 G	28478455.00	28478455.22	28478455.48	0.0138	0.0075
Neptune	73280-11-10 13:27 G	28486344.72	28486345.06	28486345.40	0.0089	0.0004
Jupiter	73295-11-15 14:39 G	28491827.82	28491828.11	28491828.40	0.0540	0.0127
Uranus	73303-07-11 16:48 G	28494621.90	28494622.20	28494622.51	0.0141	0.0054
Saturn	73311-11-19 06:43 G	28497674.69	28497674.78	28497674.90	0.0285	0.0262
Saturn	73325-12-28 11:03 G	28502827.68	28502827.96	28502828.25	0.0275	0.0117
Uranus	73343-11-30 04:05 G	28509373.44	28509373.67	28509373.94	0.0137	0.0066
Jupiter	73349-06-16 22:05 G	28511399.16	28511399.42	28511399.67	0.0488	0.0019
Neptune	73364-07-14 16:34 G	28516905.92	28516906.19	28516906.48	0.0089	0.0021
Pluto	73384-01-05 02:10 G	28524019.29	28524019.59	28524019.93	0.0068	0.0025
Saturn	73414-05-26 02:24 G	28535117.28	28535117.60	28535117.92	0.0274	0.0015
Neptune	73444-06-26 02:39 G	28546106.42	28546106.61	28546106.84	0.0089	0.0070
Saturn	73458-07-24 18:58 G	28551248.11	28551248.29	28551248.48	0.0285	0.0210
Uranus	73470-11-26 19:41 G	28555756.05	28555756.32	28555756.62	0.0140	0.0074
Saturn	73502-10-20 17:46 G	28567405.94	28567406.24	28567406.56	0.0274	0.0049
Jupiter	73503-09-12 13:55 G	28567732.88	28567733.08	28567733.28	0.0489	0.0306

Uranus	73511-04-20 22:48 G	28570510.18	28570510.45	28570510.74	0.0138	0.0033
Neptune	73528-03-01 10:34 G	28576669.69	28576669.94	28576670.23	0.0089	0.0035
Saturn	73546-12-19 11:17 G	28583536.75	28583536.97	28583537.20	0.0285	0.0159
Uranus	73555-07-24 16:19 G	28586675.98	28586676.18	28586676.43	0.0141	0.0102
Saturn	73591-03-17 04:05 G	28599695.40	28599695.67	28599695.94	0.0273	0.0144
Uranus	73595-12-14 07:55 G	28601428.67	28601428.83	28601429.02	0.0137	0.0108
Neptune	73610-01-04 23:31 G	28606564.16	28606564.48	28606564.80	0.0089	0.0030
Jupiter	73622-03-05 08:10 G	28611006.71	28611006.84	28611006.99	0.0487	0.0400
Saturn	73635-05-15 03:51 G	28615825.42	28615825.66	28615825.92	0.0285	0.0106
Uranus	73678-09-07 15:22 G	28631647.06	28631647.14	28631647.26	0.0138	0.0129
Saturn	73679-08-10 00:29 G	28631983.28	28631983.52	28631983.76	0.0274	0.0180
Neptune	73693-09-08 18:15 G	28637127.03	28637127.26	28637127.52	0.0089	0.0049
Pluto	73716-01-17 20:53 G	28645292.09	28645292.37	28645292.66	0.0077	0.0016
Jupiter	73722-10-23 17:17 G	28647762.99	28647763.22	28647763.46	0.0542	0.0334
Uranus	73722-12-09 21:22 G	28647810.06	28647810.39	28647810.72	0.0140	0.0022
Saturn	73723-10-09 10:34 G	28648113.68	28648113.94	28648114.21	0.0285	0.0072
Uranus	73763-05-04 02:10 G	28662565.31	28662565.59	28662565.88	0.0138	0.0013
Saturn	73768-01-05 00:43 G	28664272.45	28664272.53	28664272.63	0.0273	0.0261
Neptune	73773-08-19 12:00 G	28666325.70	28666326.00	28666326.33	0.0089	0.0037
Jupiter	73776-05-30 15:07 G	28667340.87	28667341.13	28667341.38	0.0487	0.0010
Saturn	73812-03-04 08:53 G	28680401.61	28680401.87	28680402.14	0.0285	0.0050
Neptune	73857-04-26 11:31 G	28696890.69	28696890.98	28696891.27	0.0089	0.0007
Pluto	73874-11-30 20:10 G	28703318.28	28703318.34	28703318.47	0.0067	0.0065
Jupiter	73877-01-18 03:36 G	28704097.40	28704097.65	28704097.91	0.0541	0.0280
Saturn	73900-07-29 20:10 G	28712690.07	28712690.34	28712690.61	0.0285	0.0007
Jupiter	73930-08-26 23:03 G	28723675.34	28723675.46	28723675.59	0.0488	0.0422
Uranus	73930-09-22 22:48 G	28723702.23	28723702.45	28723702.69	0.0138	0.0080
Neptune	73939-03-01 06:58 G	28726783.57	28726783.79	28726784.06	0.0089	0.0063
Uranus	73974-12-23 01:27 G	28739864.25	28739864.56	28739864.89	0.0140	0.0034
Saturn	73988-12-22 22:19 G	28744978.16	28744978.43	28744978.70	0.0285	0.0022

75TH MILLENNIUM CE

This is a list of transits of Mars in the 75th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	74003-01-28 17:46	G	28750128.18	28750128.24	28750128.31	0.0275	0.0269	
Uranus	74015-05-18 11:03	G	28754620.71	28754620.96	28754621.22	0.0137	0.0061	
Neptune	74020-12-11 03:36	G	28756654.48	28756654.65	28756654.89	0.0089	0.0064	
Neptune	74022-11-04 17:31	G	28757348.11	28757348.23	28757348.41	0.0089	0.0076	
Jupiter	74049-02-16 18:15	G	28766949.06	28766949.26	28766949.48	0.0487	0.0279	
Saturn	74077-05-19 06:29	G	28777267.52	28777267.77	28777268.02	0.0285	0.0104	
Saturn	74091-06-24 13:12	G	28782416.84	28782417.05	28782417.28	0.0274	0.0196	
Neptune	74102-10-13 17:46	G	28786544.90	28786545.24	28786545.58	0.0089	0.0006	
Uranus	74142-05-10 00:15	G	28800998.28	28800998.51	28800998.78	0.0140	0.0093	
Saturn	74165-10-14 00:00	G	28809556.28	28809556.50	28809556.73	0.0285	0.0159	
Saturn	74179-11-19 19:12	G	28814706.02	28814706.30	28814706.60	0.0275	0.0110	
Uranus	74182-10-06 09:07	G	28815757.60	28815757.88	28815758.16	0.0138	0.0030	
Neptune	74186-06-21 09:36	G	28817111.63	28817111.90	28817112.20	0.0089	0.0019	
Jupiter	74203-05-15 08:10	G	28823282.58	28823282.84	28823283.09	0.0487	0.0042	
Uranus	74227-01-04 22:05	G	28831918.17	28831918.42	28831918.71	0.0141	0.0081	
Saturn	74254-03-12 00:15	G	28841846.43	28841846.51	28841846.60	0.0285	0.0269	
Neptune	74266-05-28 01:55	G	28846306.42	28846306.58	28846306.78	0.0089	0.0075	
Uranus	74267-06-01 19:27	G	28846676.16	28846676.31	28846676.50	0.0138	0.0111	
Saturn	74268-04-16 10:05	G	28846995.60	28846995.92	28846996.24	0.0274	0.0008	

Jupiter	74303-12-27 00:15 G	28860032.24	28860032.51	28860032.79	0.0541	0.0203
Neptune	74350-02-05 23:31 G	28876875.23	28876875.48	28876875.75	0.0089	0.0039
Uranus	74350-02-25 07:27 G	28876894.68	28876894.81	28876894.97	0.0138	0.0118
Saturn	74356-09-11 08:10 G	28879284.53	28879284.84	28879285.15	0.0275	0.0067
Jupiter	74357-08-08 19:27 G	28879616.14	28879616.31	28879616.49	0.0487	0.0346
Uranus	74394-05-23 05:03 G	28893052.40	28893052.71	28893053.04	0.0140	0.0037
Saturn	74400-11-13 17:17 G	28895419.08	28895419.22	28895419.36	0.0285	0.0242
Neptune	74431-12-06 18:43 G	28906763.96	28906764.28	28906764.63	0.0089	0.0023
Uranus	74434-10-20 20:53 G	28907813.10	28907813.37	28907813.66	0.0138	0.0024
Saturn	74445-02-06 00:00 G	28911574.26	28911574.50	28911574.76	0.0274	0.0174
Jupiter	74458-03-21 15:51 G	28916365.92	28916366.16	28916366.42	0.0542	0.0307
Jupiter	74476-01-30 10:48 G	28922889.80	28922889.95	28922890.11	0.0486	0.0378
Saturn	74489-04-09 19:27 G	28927708.10	28927708.31	28927708.54	0.0285	0.0170
Neptune	74515-08-17 02:53 G	28937332.38	28937332.62	28937332.89	0.0089	0.0041
Saturn	74533-07-03 04:34 G	28943862.51	28943862.69	28943862.88	0.0274	0.0223
Saturn	74577-09-04 06:15 G	28959996.52	28959996.76	28959997.01	0.0285	0.0127
Neptune	74595-07-21 01:41 G	28966525.30	28966525.57	28966525.87	0.0089	0.0048
Uranus	74602-03-12 02:24 G	28968950.35	28968950.60	28968950.86	0.0138	0.0060
Pluto	74612-03-21 13:27 G	28972612.72	28972613.06	28972613.40	0.0067	0.0001
Jupiter	74630-04-27 14:53 G	28979223.87	28979224.12	28979224.38	0.0486	0.0014
Uranus	74646-06-05 11:31 G	28985106.65	28985106.98	28985107.31	0.0140	0.0022
Saturn	74666-01-29 08:24 G	28992284.60	28992284.85	28992285.11	0.0285	0.0098
Neptune	74679-04-02 17:03 G	28997095.94	28997096.21	28997096.50	0.0089	0.0019
Uranus	74686-11-04 15:07 G	28999868.92	28999869.13	28999869.38	0.0138	0.0082
Saturn	74754-06-25 16:05 G	29024572.91	29024573.17	29024573.44	0.0285	0.0061
Neptune	74761-01-29 16:05 G	29026982.90	29026983.17	29026983.48	0.0089	0.0048
Jupiter	74784-07-22 23:17 G	29035558.35	29035558.47	29035558.59	0.0486	0.0429
Uranus	74813-10-21 18:29 G	29046241.04	29046241.27	29046241.54	0.0140	0.0092
Neptune	74842-11-17 03:51 G	29056859.54	29056859.66	29056859.80	0.0088	0.0079
Saturn	74842-11-18 13:41 G	29056860.80	29056861.07	29056861.33	0.0285	0.0043

Neptune	74844-10-10 18:00 G	29057553.05	29057553.25	29057553.49	0.0089	0.0059
Uranus	74854-03-25 20:53 G	29061006.09	29061006.37	29061006.66	0.0138	0.0002
Saturn	74856-12-20 15:51 G	29062007.00	29062007.16	29062007.31	0.0275	0.0238
Jupiter	74885-02-27 02:10 G	29072302.29	29072302.59	29072302.89	0.0543	0.0029
Uranus	74898-06-17 23:46 G	29077161.23	29077161.49	29077161.76	0.0140	0.0086
Jupiter	74903-01-14 23:46 G	29078832.27	29078832.49	29078832.71	0.0486	0.0245
Neptune	74924-09-12 20:53 G	29086744.06	29086744.37	29086744.72	0.0089	0.0024
Saturn	74931-04-15 12:43 G	29089149.76	29089150.03	29089150.31	0.0285	0.0021
Pluto	74944-04-06 18:15 G	29093889.97	29093890.26	29093890.56	0.0077	0.0013
Saturn	74945-05-17 00:43 G	29094295.30	29094295.53	29094295.78	0.0274	0.0182

76TH MILLENNIUM CE

This is a list of transits of Mars in the 76th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	75008-05-28 04:48 G	29117316.41	29117316.70	29117316.99	0.0088	0.0003		
Saturn	75019-09-09 22:48 G	29121438.19	29121438.45	29121438.72	0.0285	0.0062		
Uranus	75021-08-15 05:03 G	29122143.48	29122143.71	29122143.95	0.0138	0.0077		
Saturn	75033-10-12 01:55 G	29126584.28	29126584.58	29126584.88	0.0275	0.0104		
Jupiter	75057-04-10 19:12 G	29135166.05	29135166.30	29135166.55	0.0486	0.0102		
Uranus	75065-11-04 15:07 G	29138295.80	29138296.13	29138296.47	0.0140	0.0020		
Neptune	75090-03-24 08:10 G	29147201.67	29147201.84	29147202.09	0.0089	0.0070		
Uranus	75106-04-10 23:46 G	29153062.25	29153062.49	29153062.74	0.0138	0.0067		
Saturn	75108-02-05 18:29 G	29153728.06	29153728.27	29153728.51	0.0285	0.0163		

Saturn	75122-03-09 12:15 G	29158873.69	29158874.01	29158874.33	0.0275	0.0008
Neptune	75172-01-12 15:22 G	29177079.96	29177080.14	29177080.36	0.0088	0.0065
Neptune	75173-12-06 04:34 G	29177773.54	29177773.69	29177773.86	0.0088	0.0073
Saturn	75196-07-01 18:58 G	29186017.13	29186017.29	29186017.45	0.0285	0.0230
Saturn	75210-08-03 14:53 G	29191162.82	29191163.12	29191163.44	0.0275	0.0075
Jupiter	75211-07-06 06:58 G	29191499.65	29191499.79	29191499.93	0.0486	0.0405
Uranus	75233-03-23 03:07 G	29199430.52	29199430.63	29199430.80	0.0140	0.0128
Neptune	75253-11-05 09:36 G	29206962.56	29206962.90	29206963.25	0.0089	0.0006
Uranus	75273-08-29 10:05 G	29214199.64	29214199.92	29214200.21	0.0138	0.0009
Saturn	75298-12-29 12:15 G	29223452.80	29223453.01	29223453.26	0.0274	0.0192
Uranus	75317-11-18 10:19 G	29230350.63	29230350.93	29230351.26	0.0140	0.0050
Jupiter	75329-12-27 19:12 G	29234773.13	29234773.30	29234773.49	0.0486	0.0337
Neptune	75337-07-22 14:24 G	29237536.82	29237537.10	29237537.40	0.0088	0.0011
Saturn	75343-03-07 06:43 G	29239590.66	29239590.78	29239590.91	0.0284	0.0248
Pluto	75349-07-10 06:43 G	29241907.64	29241907.78	29241907.93	0.0067	0.0061
Uranus	75358-04-25 02:10 G	29245118.54	29245118.59	29245118.66	0.0138	0.0135
Saturn	75387-05-26 01:55 G	29255741.47	29255741.58	29255741.70	0.0275	0.0255
Neptune	75417-06-20 08:24 G	29266723.73	29266723.85	29266724.01	0.0089	0.0081
Neptune	75419-05-17 18:29 G	29267420.21	29267420.27	29267420.37	0.0089	0.0086
Saturn	75431-08-02 00:58 G	29271879.34	29271879.54	29271879.74	0.0284	0.0192
Uranus	75441-01-18 17:31 G	29275337.02	29275337.23	29275337.46	0.0139	0.0087
Jupiter	75466-04-30 20:39 G	29284570.06	29284570.36	29284570.66	0.0543	0.0076
Jupiter	75484-03-23 19:41 G	29291107.06	29291107.32	29291107.57	0.0485	0.0031
Uranus	75485-04-06 07:41 G	29291485.51	29291485.82	29291486.15	0.0140	0.0048
Neptune	75501-03-08 23:31 G	29297300.25	29297300.48	29297300.72	0.0088	0.0051
Neptune	75503-01-31 13:27 G	29297994.02	29297994.06	29297994.17	0.0088	0.0086
Saturn	75519-12-27 10:34 G	29304167.72	29304167.94	29304168.19	0.0284	0.0148
Uranus	75525-09-14 10:34 G	29306255.70	29306255.94	29306256.21	0.0139	0.0058
Uranus	75569-12-02 15:22 G	29322406.04	29322406.14	29322406.29	0.0140	0.0130
Neptune	75582-12-29 16:34 G	29327180.85	29327181.19	29327181.53	0.0089	0.0009

Saturn	75608-05-21 18:15 G	29336456.01	29336456.26	29336456.51	0.0284	0.0112
Saturn	75622-06-18 23:46 G	29341597.48	29341597.49	29341597.54	0.0275	0.0273
Jupiter	75638-06-19 01:55 G	29347441.48	29347441.58	29347441.70	0.0486	0.0435
Neptune	75666-09-15 21:51 G	29357757.15	29357757.41	29357757.70	0.0088	0.0024
Pluto	75681-07-28 08:24 G	29363186.56	29363186.85	29363187.15	0.0077	0.0013
Uranus	75693-02-01 22:05 G	29367393.14	29367393.42	29367393.71	0.0139	0.0019
Saturn	75696-10-14 13:12 G	29368743.79	29368744.05	29368744.30	0.0284	0.0097
Saturn	75710-11-13 18:43 G	29373886.07	29373886.28	29373886.51	0.0276	0.0202
Uranus	75737-04-20 11:03 G	29383540.64	29383540.96	29383541.30	0.0139	0.0032
Neptune	75746-08-12 13:12 G	29386941.87	29386942.05	29386942.32	0.0089	0.0068
Jupiter	75756-12-11 04:19 G	29390715.46	29390715.68	29390715.91	0.0485	0.0224
Uranus	75777-09-28 12:43 G	29398311.92	29398312.03	29398312.19	0.0139	0.0123
Saturn	75785-03-11 03:36 G	29401032.38	29401032.65	29401032.92	0.0284	0.0050
Saturn	75799-04-08 20:24 G	29406174.10	29406174.35	29406174.62	0.0275	0.0156
Neptune	75830-05-03 09:07 G	29417520.64	29417520.88	29417521.17	0.0088	0.0038
Pluto	75840-06-05 03:22 G	29421206.37	29421206.64	29421206.97	0.0067	0.0029
Uranus	75860-06-24 04:34 G	29428530.51	29428530.69	29428530.91	0.0139	0.0098
Saturn	75873-08-05 05:46 G	29433320.47	29433320.74	29433321.01	0.0284	0.0024
Saturn	75887-09-03 15:36 G	29438462.85	29438463.15	29438463.46	0.0276	0.0087
Jupiter	75893-04-08 13:12 G	29440506.81	29440507.05	29440507.29	0.0542	0.0319
Uranus	75904-09-07 04:48 G	29444675.40	29444675.70	29444675.99	0.0139	0.0067
Jupiter	75911-03-09 04:48 G	29447049.46	29447049.70	29447049.94	0.0485	0.0154
Neptune	75912-02-21 21:22 G	29447399.07	29447399.39	29447399.73	0.0089	0.0023
Uranus	75945-02-17 17:17 G	29459448.96	29459449.22	29459449.50	0.0139	0.0042
Saturn	75961-12-31 18:15 G	29465610.00	29465610.26	29465610.53	0.0284	0.0063
Saturn	75976-01-29 16:20 G	29470751.86	29470752.18	29470752.50	0.0275	0.0005
Uranus	75989-05-04 12:58 G	29475595.86	29475596.04	29475596.27	0.0139	0.0111
Neptune	75995-11-11 09:08 G	29477977.64	29477977.88	29477978.16	0.0088	0.0039

77TH MILLENNIUM CE

This is a list of transits of Mars in the 77th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Jupiter	76047-07-04	13:27	G	29496840.81	29496841.06	29496841.34	0.0543	0.0246
Saturn	76050-05-27	15:22	G	29497898.90	29497899.14	29497899.39	0.0284	0.0125
Saturn	76064-06-24	16:34	G	29503040.88	29503041.19	29503041.50	0.0276	0.0074
Jupiter	76065-06-01	18:00	G	29503383.21	29503383.25	29503383.32	0.0486	0.0473
Neptune	76075-10-04	20:10	G	29507160.09	29507160.34	29507160.64	0.0089	0.0052
Uranus	76112-07-08	19:41	G	29520586.06	29520586.32	29520586.60	0.0139	0.0041
Saturn	76138-10-23	13:12	G	29530188.90	29530189.05	29530189.20	0.0284	0.0234
Saturn	76152-11-20	12:29	G	29535330.81	29535331.02	29535331.27	0.0276	0.0191
Uranus	76156-09-20	12:29	G	29536730.70	29536731.02	29536731.36	0.0139	0.0019
Neptune	76159-06-27	20:10	G	29537741.06	29537741.34	29537741.63	0.0088	0.0020
Jupiter	76183-11-24	02:39	G	29546656.41	29546656.61	29546656.82	0.0485	0.0283
Uranus	76197-03-03	12:29	G	29551504.85	29551505.02	29551505.24	0.0139	0.0103
Neptune	76241-04-15	06:00	G	29567617.46	29567617.75	29567618.07	0.0089	0.0040
Saturn	76241-04-17	09:08	G	29567619.81	29567619.88	29567619.97	0.0276	0.0267
Uranus	76279-11-27	23:03	G	29581723.35	29581723.46	29581723.61	0.0140	0.0123
Saturn	76285-06-27	10:05	G	29583761.85	29583761.92	29583762.01	0.0283	0.0270
Neptune	76323-02-12	09:22	G	29597504.78	29597504.89	29597505.05	0.0088	0.0079
Uranus	76324-02-08	04:48	G	29597865.45	29597865.70	29597866.01	0.0139	0.0079
Neptune	76325-01-05	22:20	G	29598198.23	29598198.43	29598198.67	0.0088	0.0058
Jupiter	76338-02-18	21:22	G	29602990.13	29602990.39	29602990.64	0.0485	0.0057

Uranus	76364-07-23 15:36 G	29612641.87	29612642.15	29612642.43	0.0139	0.0019
Saturn	76373-11-22 05:46 G	29616050.56	29616050.74	29616050.93	0.0283	0.0205
Neptune	76404-11-27 07:27 G	29627378.52	29627378.81	29627379.15	0.0089	0.0034
Uranus	76408-10-04 07:27 G	29628785.57	29628785.81	29628786.08	0.0139	0.0089
Pluto	76418-11-18 06:00 G	29632482.45	29632482.75	29632483.06	0.0077	0.0001
Saturn	76462-04-17 17:32 G	29648339.01	29648339.23	29648339.46	0.0283	0.0160
Jupiter	76474-06-10 04:34 G	29652775.45	29652775.69	29652775.94	0.0543	0.0307
Saturn	76476-05-11 01:56 G	29653476.44	29653476.58	29653476.76	0.0276	0.0237
Neptune	76488-08-21 12:58 G	29657961.75	29657962.04	29657962.33	0.0088	0.0000
Jupiter	76492-05-14 23:46 G	29659324.39	29659324.49	29659324.61	0.0485	0.0440
Uranus	76531-12-12 12:00 G	29673778.76	29673779.00	29673779.25	0.0140	0.0069
Saturn	76550-09-11 15:08 G	29680626.90	29680627.13	29680627.37	0.0283	0.0140
Saturn	76564-10-05 22:34 G	29685765.20	29685765.44	29685765.71	0.0277	0.0163
Neptune	76570-06-07 21:22 G	29687836.17	29687836.39	29687836.67	0.0089	0.0061
Uranus	76576-02-21 00:00 G	29689920.16	29689920.50	29689920.84	0.0139	0.0008
Pluto	76577-09-22 12:44 G	29690499.89	29690500.03	29690500.18	0.0067	0.0060
Jupiter	76610-11-08 01:12 G	29702598.32	29702598.55	29702598.78	0.0485	0.0219
Uranus	76616-08-06 22:20 G	29704697.19	29704697.43	29704697.69	0.0139	0.0066
Jupiter	76628-09-05 09:51 G	29709109.66	29709109.91	29709110.17	0.0542	0.0279
Saturn	76639-02-06 00:58 G	29712915.29	29712915.54	29712915.79	0.0283	0.0102
Neptune	76652-04-08 02:39 G	29717725.41	29717725.61	29717725.86	0.0088	0.0057
Saturn	76653-03-01 18:00 G	29718052.98	29718053.25	29718053.55	0.0276	0.0127
Neptune	76654-03-02 17:46 G	29718419.13	29718419.24	29718419.39	0.0088	0.0079
Saturn	76727-07-02 20:24 G	29745203.10	29745203.35	29745203.61	0.0283	0.0088
Neptune	76734-01-21 03:22 G	29747597.31	29747597.64	29747597.99	0.0089	0.0010
Saturn	76741-07-27 06:44 G	29750341.47	29750341.78	29750342.09	0.0277	0.0068
Uranus	76743-07-10 16:05 G	29751054.97	29751055.17	29751055.41	0.0138	0.0104
Jupiter	76765-02-02 07:12 G	29758932.57	29758932.80	29758933.04	0.0485	0.0193
Uranus	76783-12-26 21:22 G	29765834.12	29765834.39	29765834.68	0.0140	0.0023
Saturn	76815-11-26 22:48 G	29777492.18	29777492.45	29777492.72	0.0282	0.0021

Neptune	76817-10-17 07:56 G	29778182.57	29778182.83	29778183.13	0.0088	0.0024
Pluto	76824-02-15 09:51 G	29780494.60	29780494.91	29780495.23	0.0067	0.0021
Uranus	76828-03-05 16:05 G	29781974.88	29781975.17	29781975.48	0.0139	0.0060
Saturn	76829-12-20 20:24 G	29782630.03	29782630.35	29782630.67	0.0277	0.0003
Uranus	76868-08-20 11:03 G	29796752.81	29796752.96	29796753.13	0.0139	0.0115
Neptune	76897-09-03 12:15 G	29807358.87	29807359.01	29807359.19	0.0089	0.0079
Neptune	76899-07-31 20:53 G	29808055.33	29808055.37	29808055.46	0.0089	0.0087
Saturn	76904-04-22 12:29 G	29809780.75	29809781.02	29809781.29	0.0282	0.0025
Saturn	76918-05-17 15:36 G	29814918.85	29814919.15	29814919.47	0.0278	0.0068
Uranus	76951-05-16 18:44 G	29826971.12	29826971.28	29826971.47	0.0140	0.0110
Neptune	76981-06-03 00:58 G	29837946.29	29837946.54	29837946.83	0.0088	0.0032
Saturn	76992-09-17 07:56 G	29842070.59	29842070.83	29842071.07	0.0282	0.0130
Uranus	76995-07-22 22:20 G	29843109.13	29843109.43	29843109.76	0.0138	0.0046

78TH MILLENNIUM CE

This is a list of transits of Mars in the 78th millennium CE.

	FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	77006-10-13 08:10 G	29847208.61	29847208.84	29847209.10	0.0277	0.0178			
Uranus	77036-01-10 05:46 G	29857889.47	29857889.74	29857890.02	0.0140	0.0025			
Jupiter	77037-10-21 09:22 G	29858539.67	29858539.89	29858540.12	0.0486	0.0219			
Jupiter	77055-08-13 21:36 G	29865045.12	29865045.40	29865045.69	0.0542	0.0157			
Neptune	77063-03-16 06:58 G	29867816.47	29867816.79	29867817.14	0.0089	0.0019			
Uranus	77080-03-18 21:08 G	29874029.23	29874029.38	29874029.59	0.0139	0.0117			

Saturn	77081-02-12 12:58 G	29874359.87	29874360.04	29874360.24	0.0282	0.0206
Saturn	77095-03-09 08:39 G	29879497.77	29879497.86	29879497.98	0.0277	0.0261
Neptune	77145-01-18 17:46 G	29897710.16	29897710.24	29897710.32	0.0088	0.0085
Neptune	77146-12-13 08:10 G	29898403.63	29898403.84	29898404.11	0.0088	0.0051
Jupiter	77192-01-16 00:29 G	29914873.27	29914873.52	29914873.77	0.0485	0.0103
Uranus	77203-05-30 21:08 G	29919026.15	29919026.38	29919026.65	0.0140	0.0068
Jupiter	77209-11-07 22:48 G	29921379.25	29921379.45	29921379.65	0.0543	0.0399
Neptune	77226-10-28 19:27 G	29927578.03	29927578.31	29927578.61	0.0089	0.0046
Saturn	77227-10-18 20:24 G	29927933.29	29927933.35	29927933.44	0.0281	0.0271
Uranus	77247-08-05 08:39 G	29935163.53	29935163.86	29935164.19	0.0138	0.0016
Uranus	77288-01-23 08:53 G	29949944.64	29949944.87	29949945.14	0.0140	0.0067
Neptune	77310-07-30 00:29 G	29958167.23	29958167.52	29958167.81	0.0088	0.0004
Saturn	77316-03-14 15:08 G	29960221.96	29960222.13	29960222.32	0.0281	0.0212
Saturn	77330-04-03 20:39 G	29965355.19	29965355.36	29965355.57	0.0278	0.0223
Jupiter	77346-04-11 21:22 G	29971207.32	29971207.39	29971207.49	0.0485	0.0456
Neptune	77392-05-08 15:36 G	29988035.89	29988036.15	29988036.44	0.0089	0.0053
Saturn	77404-08-08 19:12 G	29992510.10	29992510.30	29992510.52	0.0281	0.0178
Uranus	77414-12-22 13:56 G	29996297.85	29996298.08	29996298.37	0.0138	0.0088
Saturn	77418-08-30 01:12 G	29997644.28	29997644.55	29997644.84	0.0278	0.0133
Uranus	77455-06-14 05:32 G	30011081.45	30011081.73	30011082.02	0.0140	0.0021
Jupiter	77464-10-03 18:29 G	30014481.04	30014481.27	30014481.50	0.0486	0.0222
Neptune	77474-03-15 18:00 G	30017931.03	30017931.25	30017931.48	0.0088	0.0057
Neptune	77476-02-07 07:56 G	30018624.73	30018624.83	30018625.00	0.0088	0.0079
Saturn	77493-01-02 04:05 G	30024798.44	30024798.67	30024798.91	0.0281	0.0141
Uranus	77499-08-18 07:27 G	30027217.53	30027217.81	30027218.12	0.0138	0.0067
Saturn	77507-01-23 22:48 G	30029932.15	30029932.45	30029932.75	0.0278	0.0093
Uranus	77540-02-07 16:20 G	30042000.03	30042000.18	30042000.37	0.0140	0.0112
Neptune	77555-12-23 04:20 G	30047797.35	30047797.68	30047798.02	0.0089	0.0013
Saturn	77581-05-28 20:53 G	30057086.12	30057086.37	30057086.61	0.0281	0.0132
Saturn	77595-06-19 09:51 G	30062220.60	30062220.91	30062221.23	0.0279	0.0037

Jupiter	77618-12-30 03:36 G	30070815.42	30070815.65	30070815.88	0.0486	0.0213
Uranus	77622-11-01 19:56 G	30072218.18	30072218.33	30072218.52	0.0140	0.0112
Jupiter	77636-10-16 16:48 G	30077315.92	30077316.20	30077316.49	0.0542	0.0124
Neptune	77639-09-24 01:27 G	30078388.30	30078388.56	30078388.86	0.0088	0.0025
Pluto	77648-12-23 03:08 G	30081766.50	30081766.63	30081766.79	0.0078	0.0068
Uranus	77667-01-03 09:36 G	30088351.59	30088351.90	30088352.24	0.0138	0.0040
Saturn	77669-10-22 14:10 G	30089374.83	30089375.09	30089375.35	0.0281	0.0081
Saturn	77683-11-12 13:27 G	30094508.74	30094509.06	30094509.37	0.0278	0.0013
Uranus	77707-06-28 06:15 G	30103136.49	30103136.76	30103137.05	0.0140	0.0020
Neptune	77719-08-06 18:58 G	30107559.13	30107559.29	30107559.46	0.0089	0.0078
Neptune	77721-07-03 00:15 G	30108255.47	30108255.51	30108255.65	0.0089	0.0087
Uranus	77751-08-31 05:32 G	30119271.58	30119271.73	30119271.94	0.0138	0.0117
Saturn	77758-03-18 18:44 G	30121663.02	30121663.28	30121663.56	0.0281	0.0052
Saturn	77772-04-07 23:32 G	30126797.18	30126797.48	30126797.79	0.0279	0.0068
Neptune	77803-05-11 17:32 G	30138151.97	30138152.23	30138152.53	0.0088	0.0028
Saturn	77846-08-14 07:12 G	30153952.53	30153952.80	30153953.07	0.0280	0.0041
Saturn	77860-09-03 04:34 G	30159086.44	30159086.69	30159086.95	0.0279	0.0160
Uranus	77874-11-15 23:03 G	30164273.23	30164273.46	30164273.72	0.0140	0.0069
Neptune	77885-02-14 13:56 G	30168016.77	30168017.08	30168017.43	0.0089	0.0021
Jupiter	77891-09-17 09:08 G	30170422.64	30170422.88	30170423.13	0.0486	0.0160
Pluto	77895-05-17 17:32 G	30171760.98	30171761.23	30171761.52	0.0078	0.0035
Uranus	77919-01-17 12:00 G	30180405.68	30180406.00	30180406.34	0.0138	0.0016
Saturn	77935-01-09 08:10 G	30186241.59	30186241.84	30186242.10	0.0281	0.0110
Saturn	77949-01-29 01:41 G	30191375.42	30191375.57	30191375.74	0.0279	0.0239
Uranus	77959-07-12 13:56 G	30195191.83	30195192.08	30195192.34	0.0140	0.0065
Neptune	77966-12-26 08:24 G	30197915.76	30197915.85	30197916.00	0.0088	0.0080
Neptune	77968-11-19 00:15 G	30198609.31	30198609.51	30198609.77	0.0088	0.0055

79TH MILLENNIUM CE

This is a list of transits of Mars in the 79th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	78023-06-06 03:08	G	30218531.47	30218531.63	30218531.81	0.0281	0.0220	
Jupiter	78045-12-11 22:05	G	30226756.17	30226756.42	30226756.66	0.0486	0.0159	
Neptune	78048-09-29 04:05	G	30227778.40	30227778.67	30227778.99	0.0089	0.0044	
Jupiter	78063-09-23 23:46	G	30233251.28	30233251.49	30233251.71	0.0542	0.0360	
Uranus	78086-06-03 13:12	G	30241539.82	30241540.05	30241540.33	0.0138	0.0090	
Uranus	78126-11-30 08:24	G	30256328.57	30256328.85	30256329.14	0.0140	0.0019	
Neptune	78132-07-05 16:34	G	30258372.89	30258373.19	30258373.48	0.0088	0.0001	
Pluto	78141-10-08 22:48	G	30261755.21	30261755.45	30261755.74	0.0078	0.0038	
Saturn	78170-02-08 01:56	G	30272104.53	30272104.58	30272104.67	0.0280	0.0270	
Uranus	78171-01-29 05:32	G	30272459.44	30272459.73	30272460.04	0.0138	0.0061	
Saturn	78184-02-24 05:46	G	30277233.58	30277233.74	30277233.94	0.0280	0.0228	
Jupiter	78200-03-08 12:00	G	30283089.96	30283090.00	30283090.04	0.0486	0.0479	
Uranus	78211-07-26 20:10	G	30287247.19	30287247.34	30287247.52	0.0140	0.0113	
Neptune	78214-04-10 23:17	G	30288236.22	30288236.47	30288236.76	0.0089	0.0054	
Jupiter	78217-12-19 01:56	G	30289584.29	30289584.58	30289584.88	0.0541	0.0044	
Saturn	78258-07-05 16:34	G	30304393.03	30304393.19	30304393.38	0.0279	0.0215	
Saturn	78272-07-21 19:41	G	30309523.05	30309523.32	30309523.62	0.0280	0.0121	
Uranus	78294-04-19 23:32	G	30317465.30	30317465.48	30317465.67	0.0140	0.0105	
Neptune	78296-02-20 06:44	G	30318136.56	30318136.78	30318137.03	0.0088	0.0052	
Neptune	78298-01-13 23:03	G	30318830.40	30318830.46	30318830.61	0.0088	0.0083	
Jupiter	78318-08-31 01:12	G	30326363.33	30326363.55	30326363.78	0.0486	0.0232	
Uranus	78338-06-17 14:39	G	30333593.80	30333594.11	30333594.45	0.0138	0.0036	

Saturn	78346-11-30 04:48 G	30336681.49	30336681.70	30336681.93	0.0279	0.0170
Saturn	78360-12-15 21:08 G	30341811.08	30341811.38	30341811.69	0.0279	0.0073
Neptune	78377-11-23 14:10 G	30347997.76	30347998.09	30347998.44	0.0089	0.0011
Uranus	78378-12-14 14:39 G	30348383.83	30348384.11	30348384.39	0.0140	0.0029
Pluto	78388-03-01 19:12 G	30351749.19	30351749.30	30351749.49	0.0078	0.0068
Uranus	78423-02-11 12:00 G	30364513.85	30364514.00	30364514.18	0.0138	0.0120
Saturn	78435-04-24 22:05 G	30368969.21	30368969.42	30368969.66	0.0279	0.0159
Saturn	78449-05-11 09:36 G	30374099.59	30374099.90	30374100.22	0.0280	0.0015
Neptune	78461-08-30 12:29 G	30378593.76	30378594.02	30378594.32	0.0088	0.0028
Jupiter	78472-11-24 11:32 G	30382697.75	30382697.98	30382698.21	0.0486	0.0215
Uranus	78505-11-03 01:56 G	30394728.49	30394728.58	30394728.70	0.0138	0.0130
Saturn	78523-09-19 08:53 G	30401257.62	30401257.87	30401258.12	0.0279	0.0119
Saturn	78537-10-05 07:12 G	30406387.49	30406387.80	30406388.11	0.0280	0.0025
Neptune	78541-07-08 04:34 G	30407759.53	30407759.69	30407759.89	0.0089	0.0075
Neptune	78543-06-04 07:56 G	30408455.76	30408455.83	30408455.95	0.0089	0.0085
Uranus	78546-05-04 14:39 G	30409520.84	30409521.11	30409521.38	0.0140	0.0049
Uranus	78590-06-29 19:41 G	30425648.00	30425648.32	30425648.66	0.0138	0.0020
Jupiter	78591-05-19 02:53 G	30425971.59	30425971.62	30425971.65	0.0487	0.0482
Saturn	78612-02-13 05:03 G	30433545.46	30433545.71	30433545.97	0.0279	0.0106
Neptune	78625-04-17 01:41 G	30438357.29	30438357.57	30438357.85	0.0088	0.0027
Saturn	78626-03-01 11:17 G	30438675.67	30438675.97	30438676.28	0.0281	0.0068
Uranus	78630-12-29 06:58 G	30440439.59	30440439.79	30440440.04	0.0140	0.0086
Jupiter	78644-11-27 18:29 G	30445521.98	30445522.27	30445522.55	0.0541	0.0113
Saturn	78700-07-10 09:08 G	30465834.61	30465834.88	30465835.16	0.0278	0.0031
Neptune	78707-01-17 21:08 G	30468217.06	30468217.38	30468217.72	0.0089	0.0019
Uranus	78713-09-23 11:03 G	30470657.87	30470657.96	30470658.10	0.0140	0.0129
Saturn	78714-07-27 04:34 G	30470964.43	30470964.69	30470964.97	0.0281	0.0142
Jupiter	78745-08-13 22:34 G	30482305.19	30482305.44	30482305.70	0.0487	0.0114
Uranus	78757-11-16 04:05 G	30486782.40	30486782.67	30486782.95	0.0138	0.0078
Neptune	78788-12-01 12:00 G	30498120.92	30498121.00	30498121.13	0.0088	0.0083

Saturn	78788-12-04 03:51 G	30498123.39	30498123.66	30498123.94	0.0278	0.0027
Neptune	78790-10-26 05:46 G	30498814.54	30498814.74	30498815.01	0.0088	0.0053
Uranus	78798-05-19 03:22 G	30501576.35	30501576.64	30501576.92	0.0140	0.0006
Jupiter	78799-02-23 07:12 G	30501856.70	30501856.80	30501856.90	0.0540	0.0505
Saturn	78802-12-20 19:12 G	30503253.09	30503253.30	30503253.51	0.0281	0.0207
Uranus	78842-07-12 21:51 G	30517702.13	30517702.41	30517702.70	0.0138	0.0071
Neptune	78870-08-31 10:34 G	30527978.69	30527978.94	30527979.26	0.0089	0.0048
Saturn	78877-05-01 00:00 G	30530413.26	30530413.50	30530413.74	0.0278	0.0137
Uranus	78883-01-11 19:12 G	30532495.28	30532495.30	30532495.38	0.0140	0.0138
Jupiter	78899-11-07 13:56 G	30538638.85	30538639.08	30538639.32	0.0487	0.0222
Neptune	78954-06-11 16:05 G	30558577.88	30558578.17	30558578.47	0.0088	0.0005
Saturn	78965-09-26 07:41 G	30562702.66	30562702.82	30562702.99	0.0279	0.0223
Uranus	78965-10-06 23:46 G	30562713.24	30562713.49	30562713.73	0.0141	0.0074

80TH MILLENNIUM CE

This is a list of transits of Mars in the 80th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	79009-11-29 17:46 G	30578836.92	30578837.24	30578837.58	0.0138	0.0015		
Neptune	79036-03-12 00:00 G	30588436.25	30588436.50	30588436.82	0.0089	0.0046		
Saturn	79038-01-16 03:51 G	30589111.57	30589111.66	30589111.76	0.0282	0.0268		
Uranus	79050-06-02 22:20 G	30593632.18	30593632.43	30593632.69	0.0140	0.0064		
Saturn	79112-06-01 08:24 G	30616275.76	30616275.85	30616275.98	0.0277	0.0254		
Neptune	79118-01-26 22:34 G	30618341.26	30618341.44	30618341.68	0.0088	0.0061		

Neptune	79119-12-21 17:46 G	30619035.10	30619035.24	30619035.44	0.0088	0.0072
Saturn	79126-06-14 04:48 G	30621401.44	30621401.70	30621401.98	0.0282	0.0139
Jupiter	79172-07-26 02:10 G	30638245.37	30638245.59	30638245.83	0.0488	0.0241
Uranus	79177-04-17 12:58 G	30639971.84	30639972.04	30639972.29	0.0137	0.0102
Neptune	79199-10-25 11:17 G	30648197.66	30648197.97	30648198.31	0.0089	0.0022
Saturn	79200-10-26 03:22 G	30648564.45	30648564.64	30648564.84	0.0277	0.0195
Saturn	79214-11-07 17:17 G	30653689.92	30653690.22	30653690.52	0.0282	0.0072
Uranus	79217-10-22 00:58 G	30654769.25	30654769.54	30654769.83	0.0141	0.0007
Jupiter	79226-01-30 15:51 G	30657791.87	30657792.16	30657792.44	0.0540	0.0039
Uranus	79261-12-12 09:36 G	30670891.59	30670891.90	30670892.21	0.0138	0.0049
Neptune	79283-08-06 00:15 G	30678798.23	30678798.51	30678798.81	0.0088	0.0015
Pluto	79288-01-24 17:03 G	30680430.91	30680431.21	30680431.54	0.0066	0.0018
Saturn	79289-03-21 02:53 G	30680852.41	30680852.62	30680852.85	0.0277	0.0171
Uranus	79302-06-17 20:39 G	30685688.27	30685688.36	30685688.49	0.0140	0.0130
Saturn	79303-04-04 14:39 G	30685978.80	30685979.11	30685979.42	0.0283	0.0004
Jupiter	79326-10-21 10:34 G	30694579.70	30694579.94	30694580.18	0.0488	0.0201
Neptune	79365-05-04 21:08 G	30708655.18	30708655.38	30708655.62	0.0089	0.0068
Pluto	79375-08-19 16:48 G	30712413.91	30712414.20	30712414.51	0.0078	0.0020
Saturn	79377-08-15 12:44 G	30713140.79	30713141.03	30713141.28	0.0277	0.0131
Jupiter	79380-04-26 17:32 G	30714126.15	30714126.23	30714126.33	0.0540	0.0512
Uranus	79385-03-11 21:08 G	30715906.16	30715906.38	30715906.63	0.0141	0.0083
Saturn	79391-08-28 11:17 G	30718266.67	30718266.97	30718267.28	0.0282	0.0041
Uranus	79429-05-01 12:29 G	30732026.71	30732027.02	30732027.36	0.0137	0.0030
Neptune	79447-03-23 05:46 G	30738561.50	30738561.74	30738562.02	0.0088	0.0043
Saturn	79466-01-09 04:05 G	30745428.43	30745428.67	30745428.92	0.0277	0.0126
Uranus	79469-11-05 18:29 G	30746825.02	30746825.27	30746825.55	0.0141	0.0055
Saturn	79480-01-22 10:48 G	30750554.65	30750554.95	30750555.25	0.0283	0.0076
Uranus	79513-12-27 11:32 G	30762946.83	30762946.98	30762947.13	0.0137	0.0122
Neptune	79528-12-18 06:44 G	30768416.44	30768416.78	30768417.11	0.0089	0.0002
Saturn	79554-06-05 22:20 G	30777717.16	30777717.43	30777717.70	0.0276	0.0069

Saturn	79568-06-17 15:22 G	30782842.87	30782843.14	30782843.42	0.0283	0.0127
Uranus	79596-09-17 22:48 G	30793162.25	30793162.45	30793162.69	0.0137	0.0101
Jupiter	79599-07-09 23:03 G	30794187.20	30794187.46	30794187.72	0.0489	0.0097
Neptune	79612-09-30 05:03 G	30799018.45	30799018.71	30799019.01	0.0088	0.0032
Uranus	79637-03-26 22:34 G	30807962.15	30807962.44	30807962.73	0.0141	0.0014
Saturn	79642-10-30 05:03 G	30810005.43	30810005.71	30810005.99	0.0276	0.0034
Jupiter	79653-01-09 21:36 G	30813730.12	30813730.40	30813730.68	0.0539	0.0140
Saturn	79656-11-10 18:58 G	30815131.05	30815131.29	30815131.54	0.0284	0.0173
Uranus	79681-05-14 19:56 G	30824082.03	30824082.33	30824082.65	0.0137	0.0048
Neptune	79692-07-31 14:39 G	30828177.95	30828178.11	30828178.35	0.0089	0.0071
Neptune	79694-06-27 13:12 G	30828873.98	30828874.05	30828874.16	0.0089	0.0086
Uranus	79721-11-20 22:05 G	30838881.31	30838881.42	30838881.58	0.0141	0.0125
Saturn	79731-03-27 17:46 G	30842294.97	30842295.24	30842295.51	0.0276	0.0064
Saturn	79745-04-08 06:00 G	30847420.70	30847420.75	30847420.79	0.0283	0.0280
Jupiter	79753-10-03 18:44 G	30850521.06	30850521.28	30850521.50	0.0489	0.0276
Neptune	79776-05-16 08:10 G	30858781.57	30858781.84	30858782.14	0.0088	0.0027
Uranus	79804-08-16 00:00 G	30869099.28	30869099.50	30869099.75	0.0141	0.0083
Jupiter	79807-04-07 03:08 G	30870063.39	30870063.63	30870063.88	0.0539	0.0268
Saturn	79819-08-22 22:20 G	30874584.20	30874584.43	30874584.67	0.0276	0.0146
Uranus	79848-10-02 02:39 G	30885217.29	30885217.61	30885217.94	0.0137	0.0028
Neptune	79858-02-09 19:56 G	30888635.02	30888635.33	30888635.67	0.0089	0.0015
Uranus	79889-04-10 20:53 G	30900018.11	30900018.37	30900018.64	0.0141	0.0053
Saturn	79908-01-18 16:05 G	30906874.08	30906874.17	30906874.28	0.0276	0.0257
Uranus	79933-05-29 23:03 G	30916137.33	30916137.46	30916137.64	0.0137	0.0120
Neptune	79940-01-01 10:34 G	30918544.90	30918544.94	30918545.06	0.0088	0.0085
Neptune	79941-11-25 08:24 G	30919238.61	30919238.85	30919239.11	0.0088	0.0048
Saturn	79980-05-04 23:46 G	30933279.28	30933279.49	30933279.73	0.0285	0.0194

81ST MILLENNIUM CE

This is a list of transits of Mars in the 81st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	80016-02-19 16:34	G	30946352.98	30946353.19	30946353.44	0.0137	0.0096	
Neptune	80021-09-24 04:48	G	30948396.46	30948396.70	30948396.98	0.0089	0.0056	
Jupiter	80026-06-20 15:36	G	30950126.93	30950127.15	30950127.39	0.0489	0.0248	
Pluto	80029-02-16 09:36	G	30951098.74	30951098.90	30951099.09	0.0066	0.0055	
Saturn	80054-09-21 15:08	G	30960446.97	30960447.13	30960447.31	0.0275	0.0221	
Uranus	80056-08-29 12:15	G	30961154.73	30961155.01	30961155.31	0.0142	0.0025	
Saturn	80068-09-28 22:20	G	30965568.15	30965568.43	30965568.72	0.0284	0.0107	
Uranus	80100-10-16 14:10	G	30977272.80	30977273.09	30977273.41	0.0137	0.0053	
Neptune	80105-07-11 12:00	G	30979001.71	30979002.00	30979002.30	0.0088	0.0009	
Uranus	80141-04-25 15:22	G	30992073.98	30992074.14	30992074.32	0.0141	0.0115	
Saturn	80143-02-15 23:32	G	30992735.28	30992735.48	30992735.71	0.0275	0.0178	
Saturn	80157-02-24 07:12	G	30997857.50	30997857.80	30997858.11	0.0285	0.0010	
Jupiter	80180-09-14 18:29	G	31006461.03	31006461.27	31006461.53	0.0489	0.0177	
Neptune	80187-04-04 09:51	G	31008853.62	31008853.91	31008854.25	0.0089	0.0031	
Uranus	80224-01-19 09:51	G	31022291.71	31022291.91	31022292.14	0.0142	0.0097	
Saturn	80231-07-13 11:32	G	31025023.74	31025023.98	31025024.23	0.0275	0.0133	
Jupiter	80234-03-15 09:51	G	31025999.64	31025999.91	31026000.18	0.0538	0.0162	
Saturn	80245-07-21 10:05	G	31030145.62	31030145.92	31030146.23	0.0284	0.0039	
Uranus	80268-03-05 04:34	G	31038408.37	31038408.69	31038409.02	0.0137	0.0015	
Neptune	80269-02-24 14:24	G	31038764.91	31038765.10	31038765.31	0.0088	0.0065	
Neptune	80271-01-19 13:41	G	31039458.88	31039459.07	31039459.27	0.0088	0.0066	
Uranus	80308-09-14 13:12	G	31053210.79	31053211.05	31053211.34	0.0142	0.0046	

Saturn	80319-12-07 01:41 G	31057311.33	31057311.57	31057311.83	0.0275	0.0128
Saturn	80333-12-15 12:44 G	31062433.75	31062434.03	31062434.34	0.0286	0.0080
Neptune	80350-11-17 20:39 G	31068615.09	31068615.36	31068615.68	0.0089	0.0039
Uranus	80352-10-30 22:20 G	31069328.34	31069328.43	31069328.55	0.0137	0.0129
Jupiter	80388-06-10 12:29 G	31082334.98	31082335.02	31082335.08	0.0537	0.0527
Saturn	80408-05-01 13:56 G	31089599.82	31089600.08	31089600.36	0.0274	0.0082
Saturn	80422-05-10 11:03 G	31094721.68	31094721.96	31094722.24	0.0285	0.0118
Neptune	80434-09-04 17:17 G	31099221.92	31099222.22	31099222.52	0.0088	0.0011
Uranus	80435-07-23 15:36 G	31099543.90	31099544.15	31099544.41	0.0136	0.0085
Jupiter	80453-06-03 04:05 G	31106068.42	31106068.67	31106068.93	0.0491	0.0122
Uranus	80476-02-02 01:56 G	31114347.31	31114347.58	31114347.87	0.0142	0.0033
Saturn	80496-09-24 12:29 G	31121887.75	31121888.02	31121888.30	0.0274	0.0061
Saturn	80510-10-04 06:00 G	31127009.50	31127009.75	31127010.03	0.0286	0.0148
Neptune	80516-05-28 05:17 G	31129072.44	31129072.72	31129073.00	0.0089	0.0048
Uranus	80520-03-19 08:53 G	31130463.60	31130463.87	31130464.19	0.0136	0.0059
Uranus	80560-09-27 20:10 G	31145266.15	31145266.34	31145266.57	0.0142	0.0099
Saturn	80585-02-19 18:00 G	31154176.97	31154177.25	31154177.53	0.0273	0.0023
Neptune	80598-04-20 22:20 G	31158985.19	31158985.43	31158985.71	0.0088	0.0044
Saturn	80599-02-28 02:39 G	31159298.44	31159298.61	31159298.81	0.0286	0.0228
Jupiter	80607-08-30 07:12 G	31162402.59	31162402.80	31162403.01	0.0490	0.0302
Uranus	80643-06-23 09:08 G	31175483.73	31175483.88	31175484.07	0.0142	0.0115
Jupiter	80661-02-23 03:51 G	31181938.42	31181938.66	31181938.91	0.0536	0.0247
Saturn	80673-07-17 16:20 G	31186465.92	31186466.18	31186466.45	0.0274	0.0092
Neptune	80680-01-10 21:51 G	31188834.10	31188834.41	31188834.74	0.0089	0.0018
Uranus	80687-08-07 00:15 G	31191599.18	31191599.51	31191599.83	0.0136	0.0008
Uranus	80728-02-17 09:22 G	31206402.60	31206402.89	31206403.18	0.0142	0.0021
Saturn	80761-12-13 10:48 G	31218755.76	31218755.95	31218756.14	0.0274	0.0203
Neptune	80763-10-31 03:22 G	31219442.38	31219442.64	31219442.93	0.0088	0.0035
Pluto	80772-01-30 00:15 G	31222455.24	31222455.51	31222455.82	0.0066	0.0028
Uranus	80772-04-02 15:22 G	31222519.07	31222519.14	31222519.24	0.0137	0.0132

Jupiter	80815-05-21 01:27 G	31238272.31	31238272.56	31238272.81	0.0536	0.0241
Saturn	80834-03-26 14:10 G	31245157.03	31245157.09	31245157.17	0.0288	0.0279
Neptune	80843-08-25 17:46 G	31248596.13	31248596.24	31248596.42	0.0089	0.0081
Neptune	80845-07-21 09:08 G	31249291.72	31249291.88	31249292.11	0.0089	0.0072
Uranus	80854-12-24 11:17 G	31252734.73	31252734.97	31252735.26	0.0136	0.0079
Pluto	80859-08-24 23:46 G	31254439.20	31254439.49	31254439.81	0.0078	0.0014
Jupiter	80880-05-14 19:41 G	31262008.09	31262008.32	31262008.55	0.0491	0.0256
Uranus	80895-07-06 23:17 G	31267539.21	31267539.47	31267539.75	0.0142	0.0054
Saturn	80908-08-17 17:17 G	31272329.11	31272329.22	31272329.33	0.0273	0.0250
Saturn	80922-08-21 21:22 G	31277446.16	31277446.39	31277446.64	0.0287	0.0175
Neptune	80927-06-16 08:10 G	31279205.56	31279205.84	31279206.15	0.0088	0.0019
Uranus	80939-08-20 21:51 G	31283654.12	31283654.41	31283654.71	0.0136	0.0056
Uranus	80980-03-01 22:20 G	31298458.19	31298458.43	31298458.67	0.0142	0.0080
Saturn	80997-01-11 13:56 G	31304617.88	31304618.08	31304618.29	0.0273	0.0183

82ND MILLENNIUM CE

This is a list of transits of Mars in the 82nd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Neptune	81009-03-06 06:29 G	31309053.46	31309053.77	31309054.11	0.0089	0.0010		
Saturn	81011-01-17 19:56 G	31309736.04	31309736.33	31309736.63	0.0287	0.0052		
Jupiter	81034-08-10 16:20 G	31318341.92	31318342.18	31318342.44	0.0491	0.0142		
Uranus	81062-11-25 01:12 G	31328675.51	31328675.55	31328675.65	0.0142	0.0139		
Saturn	81085-06-08 10:05 G	31336906.67	31336906.92	31336907.18	0.0273	0.0122		

Neptune	81091-01-30 13:41 G	31338968.91	31338969.07	31338969.26	0.0088	0.0071
Neptune	81092-12-24 15:22 G	31339662.94	31339663.14	31339663.38	0.0088	0.0061
Saturn	81099-06-13 08:53 G	31342024.57	31342024.87	31342025.17	0.0287	0.0016
Uranus	81107-01-08 04:48 G	31344789.39	31344789.70	31344790.03	0.0136	0.0018
Uranus	81147-07-21 22:20 G	31359594.14	31359594.43	31359594.73	0.0142	0.0007
Neptune	81172-10-19 06:44 G	31368815.53	31368815.78	31368816.06	0.0089	0.0052
Saturn	81173-11-02 05:03 G	31369194.46	31369194.71	31369194.98	0.0272	0.0106
Saturn	81187-11-07 18:44 G	31374312.99	31374313.28	31374313.58	0.0288	0.0069
Uranus	81191-09-03 15:36 G	31375708.98	31375709.15	31375709.31	0.0136	0.0117
Uranus	81232-03-15 19:41 G	31390513.21	31390513.32	31390513.49	0.0142	0.0124
Jupiter	81242-04-29 11:17 G	31394209.69	31394209.97	31394210.25	0.0535	0.0061
Neptune	81256-08-09 21:36 G	31399426.10	31399426.40	31399426.70	0.0088	0.0009
Saturn	81262-03-28 13:56 G	31401482.81	31401483.08	31401483.36	0.0272	0.0064
Uranus	81274-05-26 15:08 G	31405924.88	31405925.13	31405925.37	0.0136	0.0089
Saturn	81276-04-01 14:10 G	31406600.81	31406601.09	31406601.38	0.0288	0.0102
Jupiter	81307-04-28 15:51 G	31417948.91	31417949.16	31417949.41	0.0493	0.0189
Uranus	81314-12-09 02:53 G	31420730.40	31420730.62	31420730.87	0.0142	0.0088
Neptune	81338-04-29 21:22 G	31429273.12	31429273.39	31429273.70	0.0089	0.0039
Saturn	81350-08-22 04:05 G	31433770.39	31433770.67	31433770.95	0.0272	0.0057
Uranus	81359-01-20 22:34 G	31436844.14	31436844.44	31436844.75	0.0136	0.0044
Saturn	81364-08-26 03:08 G	31438888.36	31438888.63	31438888.91	0.0289	0.0118
Jupiter	81396-07-25 02:39 G	31450544.58	31450544.61	31450544.64	0.0535	0.0532
Uranus	81399-08-04 05:03 G	31451649.44	31451649.71	31451649.99	0.0142	0.0047
Neptune	81420-03-27 01:27 G	31459189.31	31459189.56	31459189.85	0.0088	0.0042
Saturn	81439-01-16 22:05 G	31466059.14	31466059.42	31466059.71	0.0271	0.0006
Saturn	81453-01-20 10:05 G	31471176.68	31471176.92	31471177.17	0.0289	0.0173
Jupiter	81461-07-24 02:10 G	31474283.37	31474283.59	31474283.80	0.0492	0.0289
Neptune	81501-12-14 00:00 G	31489035.20	31489035.50	31489035.83	0.0089	0.0020
Pluto	81515-01-09 13:56 G	31493809.84	31493810.08	31493810.36	0.0065	0.0038
Uranus	81526-06-10 01:27 G	31497979.25	31497979.56	31497979.87	0.0136	0.0033

Saturn	81527-06-13 09:22 G	31498347.62	31498347.89	31498348.18	0.0271	0.0056
Saturn	81541-06-16 10:34 G	31503464.75	31503464.94	31503465.15	0.0289	0.0217
Uranus	81566-12-23 07:41 G	31512785.53	31512785.82	31512786.11	0.0142	0.0032
Neptune	81585-10-05 10:34 G	31519646.69	31519646.94	31519647.23	0.0088	0.0040
Uranus	81611-02-03 05:46 G	31528898.51	31528898.74	31528898.97	0.0136	0.0095
Saturn	81615-11-07 22:48 G	31530637.24	31530637.45	31530637.70	0.0271	0.0160
Uranus	81651-08-18 02:53 G	31543704.41	31543704.62	31543704.84	0.0142	0.0096
Neptune	81665-07-28 05:46 G	31548797.60	31548797.74	31548797.93	0.0089	0.0077
Neptune	81667-06-23 15:22 G	31549492.99	31549493.14	31549493.37	0.0089	0.0073
Jupiter	81669-04-09 10:20 G	31550148.67	31550148.93	31550149.19	0.0534	0.0167
Uranus	81693-10-26 07:12 G	31559114.62	31559114.80	31559115.01	0.0136	0.0107
Saturn	81704-04-04 09:51 G	31562926.82	31562926.91	31562927.02	0.0272	0.0254
Jupiter	81734-04-09 08:10 G	31573888.61	31573888.84	31573889.07	0.0494	0.0274
Uranus	81734-05-12 00:15 G	31573921.38	31573921.51	31573921.69	0.0142	0.0120
Neptune	81749-05-21 17:03 G	31579409.90	31579410.21	31579410.51	0.0088	0.0010
Pluto	81763-04-20 04:34 G	31584491.41	31584491.69	31584492.02	0.0065	0.0019
Saturn	81776-07-12 06:44 G	31589323.77	31589323.78	31589323.80	0.0290	0.0289
Uranus	81778-06-22 10:48 G	31590033.64	31590033.95	31590034.27	0.0136	0.0020
Uranus	81819-01-06 00:44 G	31604840.24	31604840.53	31604840.83	0.0142	0.0012
Jupiter	81823-07-05 06:15 G	31606481.50	31606481.76	31606482.03	0.0534	0.0154
Neptune	81831-02-06 22:05 G	31609255.10	31609255.42	31609255.74	0.0089	0.0015
Saturn	81850-12-08 13:56 G	31616499.89	31616500.08	31616500.29	0.0270	0.0192
Saturn	81864-12-08 14:24 G	31621613.86	31621614.10	31621614.37	0.0290	0.0145
Jupiter	81888-07-03 22:20 G	31630222.17	31630222.43	31630222.70	0.0494	0.0101
Neptune	81913-01-05 19:56 G	31639173.11	31639173.33	31639173.56	0.0088	0.0060
Neptune	81914-12-01 02:39 G	31639867.46	31639867.61	31639867.81	0.0088	0.0072
Saturn	81939-05-05 18:15 G	31648789.01	31648789.26	31648789.53	0.0270	0.0113
Uranus	81945-11-09 16:48 G	31651168.92	31651169.20	31651169.51	0.0136	0.0053
Saturn	81953-05-05 16:20 G	31653902.88	31653903.18	31653903.47	0.0290	0.0051
Uranus	81986-05-26 04:48 G	31665976.44	31665976.70	31665976.98	0.0142	0.0064

Neptune 81994-09-22 06:00 G 31669017.48 31669017.75 31669018.05 0.0089 0.0041

83RD MILLENNIUM CE

This is a list of transits of Mars in the 83rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	82011-07-30 16:20	G	31675173.12	31675173.18	31675173.26	0.0065	0.0064	
Saturn	82027-09-28 21:36	G	31681077.13	31681077.40	31681077.69	0.0270	0.0080	
Uranus	82030-07-05 18:15	G	31682088.01	31682088.26	31682088.56	0.0136	0.0072	
Saturn	82041-09-29 17:03	G	31686191.91	31686192.21	31686192.51	0.0290	0.0029	
Uranus	82071-01-19 06:29	G	31696895.52	31696895.77	31696896.04	0.0142	0.0069	
Neptune	82078-07-16 06:29	G	31699630.48	31699630.77	31699631.07	0.0088	0.0022	
Pluto	82099-02-22 14:24	G	31707156.89	31707157.10	31707157.34	0.0079	0.0054	
Uranus	82113-03-28 21:08	G	31712304.31	31712304.38	31712304.51	0.0136	0.0129	
Saturn	82116-02-23 09:22	G	31713365.61	31713365.89	31713366.18	0.0270	0.0031	
Saturn	82130-02-23 19:56	G	31718480.04	31718480.33	31718480.62	0.0290	0.0075	
Neptune	82160-04-01 21:22	G	31729475.15	31729475.39	31729475.68	0.0089	0.0051	
Jupiter	82161-03-21 02:39	G	31729828.40	31729828.61	31729828.83	0.0495	0.0309	
Uranus	82197-11-21 21:36	G	31743223.09	31743223.40	31743223.72	0.0136	0.0007	
Saturn	82204-07-18 22:48	G	31745653.17	31745653.45	31745653.74	0.0269	0.0025	
Saturn	82218-07-20 10:34	G	31750767.67	31750767.94	31750768.23	0.0291	0.0094	
Uranus	82238-06-08 23:32	G	31758031.19	31758031.48	31758031.78	0.0142	0.0016	
Neptune	82242-03-02 10:05	G	31759393.65	31759393.92	31759394.23	0.0088	0.0028	
Jupiter	82250-06-15 06:00	G	31762420.48	31762420.75	31762421.03	0.0532	0.0038	

Uranus	82282-07-18 22:05 G	31774142.28	31774142.42	31774142.60	0.0136	0.0117
Saturn	82292-12-12 10:48 G	31777941.66	31777941.95	31777942.24	0.0269	0.0028
Saturn	82306-12-14 08:10 G	31783055.58	31783055.84	31783056.11	0.0291	0.0128
Jupiter	82315-06-17 19:27 G	31786163.06	31786163.31	31786163.56	0.0495	0.0213
Uranus	82323-02-02 23:03 G	31788950.28	31788950.46	31788950.64	0.0142	0.0112
Neptune	82323-11-17 06:15 G	31789237.45	31789237.76	31789238.09	0.0089	0.0007
Pluto	82347-06-05 05:03 G	31797838.40	31797838.71	31797839.03	0.0079	0.0001
Uranus	82365-04-11 07:41 G	31804358.58	31804358.82	31804359.10	0.0136	0.0077
Saturn	82381-05-08 12:00 G	31810229.72	31810230.00	31810230.28	0.0269	0.0059
Saturn	82395-05-08 20:10 G	31815343.09	31815343.34	31815343.60	0.0292	0.0146
Neptune	82405-10-16 10:05 G	31819156.82	31819156.92	31819157.09	0.0088	0.0079
Uranus	82405-10-26 17:46 G	31819167.04	31819167.24	31819167.48	0.0142	0.0098
Neptune	82407-09-10 20:53 G	31819851.14	31819851.37	31819851.63	0.0088	0.0054
Uranus	82449-12-05 07:56 G	31835277.55	31835277.83	31835278.15	0.0136	0.0046
Saturn	82469-10-02 15:36 G	31842518.92	31842519.15	31842519.41	0.0269	0.0146
Saturn	82483-10-02 20:53 G	31847632.19	31847632.37	31847632.55	0.0292	0.0234
Neptune	82487-07-01 16:34 G	31848999.98	31849000.19	31849000.44	0.0089	0.0062
Neptune	82489-05-26 21:22 G	31849695.31	31849695.39	31849695.54	0.0089	0.0084
Uranus	82490-06-22 02:10 G	31850086.31	31850086.59	31850086.89	0.0142	0.0039
Jupiter	82523-03-01 20:53 G	31862026.29	31862026.37	31862026.47	0.0531	0.0499
Saturn	82558-02-27 18:29 G	31874808.13	31874808.27	31874808.44	0.0269	0.0226
Neptune	82571-04-26 22:05 G	31879614.11	31879614.42	31879614.73	0.0088	0.0004
Jupiter	82588-03-02 02:10 G	31885768.40	31885768.59	31885768.81	0.0496	0.0326
Pluto	82595-09-13 07:41 G	31888519.51	31888519.82	31888520.13	0.0079	0.0013
Uranus	82617-04-24 18:15 G	31896412.96	31896413.26	31896413.58	0.0136	0.0026
Neptune	82653-01-10 06:58 G	31909457.49	31909457.79	31909458.10	0.0089	0.0027
Uranus	82657-11-10 04:34 G	31911222.41	31911222.69	31911222.99	0.0142	0.0034
Jupiter	82677-05-25 21:22 G	31918359.14	31918359.39	31918359.65	0.0531	0.0170
Uranus	82701-12-19 18:29 G	31927332.08	31927332.27	31927332.52	0.0136	0.0097
Saturn	82704-11-03 01:56 G	31928381.40	31928381.58	31928381.78	0.0268	0.0204

Saturn	82718-10-31 05:17 G	31933491.64	31933491.72	31933491.84	0.0293	0.0275
Neptune	82734-12-11 21:08 G	31939377.13	31939377.38	31939377.66	0.0088	0.0047
Neptune	82736-11-05 06:58 G	31940071.75	31940071.79	31940071.90	0.0088	0.0085
Jupiter	82742-05-28 15:08 G	31942101.86	31942102.13	31942102.41	0.0496	0.0048
Uranus	82742-07-07 07:41 G	31942141.62	31942141.82	31942142.06	0.0142	0.0098
Uranus	82784-09-11 07:41 G	31957548.61	31957548.82	31957549.06	0.0136	0.0094
Saturn	82793-03-30 15:36 G	31960670.89	31960671.15	31960671.42	0.0268	0.0107
Saturn	82807-03-27 17:46 G	31965781.01	31965781.24	31965781.50	0.0292	0.0160
Neptune	82816-08-25 17:32 G	31969219.93	31969220.23	31969220.53	0.0089	0.0029
Uranus	82825-03-29 19:27 G	31972358.14	31972358.31	31972358.50	0.0143	0.0115
Jupiter	82831-08-20 08:53 G	31974692.63	31974692.87	31974693.11	0.0531	0.0233
Pluto	82843-12-23 09:51 G	31979200.63	31979200.91	31979201.22	0.0079	0.0029
Uranus	82869-05-07 09:36 G	31988467.59	31988467.90	31988468.21	0.0136	0.0029
Saturn	82881-08-24 07:56 G	31992959.55	31992959.83	31992960.13	0.0268	0.0049
Saturn	82895-08-22 09:08 G	31998070.59	31998070.88	31998071.17	0.0293	0.0051
Jupiter	82896-08-21 01:27 G	31998435.41	31998435.56	31998435.71	0.0496	0.0415
Neptune	82900-06-21 06:29 G	31999834.50	31999834.77	31999835.08	0.0088	0.0034
Uranus	82909-11-24 01:27 G	32003277.27	32003277.56	32003277.87	0.0142	0.0020
Saturn	82970-01-19 02:39 G	32025248.32	32025248.61	32025248.90	0.0268	0.0014
Neptune	82980-04-10 03:51 G	32028982.60	32028982.66	32028982.80	0.0089	0.0085
Neptune	82982-03-06 05:17 G	32029677.50	32029677.72	32029677.98	0.0089	0.0058
Saturn	82984-01-16 22:05 G	32030359.12	32030359.42	32030359.71	0.0293	0.0015

84TH MILLENNIUM CE

This is a list of transits of Mars in the 84th millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Jupiter	83015-02-11	19:12	G	32041707.23	32041707.30	32041707.40	0.0498	0.0474	
Uranus	83036-09-25	05:46	G	32049603.45	32049603.74	32049604.05	0.0136	0.0034	
Saturn	83058-06-14	18:58	G	32057536.00	32057536.29	32057536.58	0.0268	0.0027	
Neptune	83064-02-05	01:56	G	32059597.29	32059597.58	32059597.90	0.0088	0.0019	
Saturn	83072-06-11	20:10	G	32062647.05	32062647.34	32062647.63	0.0294	0.0045	
Uranus	83077-04-13	04:48	G	32064413.43	32064413.70	32064413.99	0.0143	0.0051	
Pluto	83092-04-02	01:12	G	32069881.23	32069881.55	32069881.87	0.0079	0.0003	
Jupiter	83104-05-06	15:22	G	32074297.95	32074298.14	32074298.34	0.0529	0.0367	
Uranus	83121-05-22	05:03	G	32080522.49	32080522.71	32080522.98	0.0136	0.0087	
Neptune	83145-10-20	15:22	G	32089439.83	32089440.14	32089440.46	0.0089	0.0002	
Saturn	83146-11-09	01:41	G	32089824.29	32089824.57	32089824.86	0.0267	0.0073	
Saturn	83160-11-05	15:08	G	32094934.85	32094935.13	32094935.42	0.0294	0.0073	
Uranus	83161-12-08	17:32	G	32095333.01	32095333.23	32095333.48	0.0143	0.0089	
Jupiter	83169-05-09	14:53	G	32098041.85	32098042.12	32098042.40	0.0497	0.0075	
Uranus	83204-02-13	03:36	G	32110739.45	32110739.65	32110739.89	0.0135	0.0096	
Neptune	83227-09-20	16:48	G	32119360.07	32119360.20	32119360.42	0.0088	0.0073	
Neptune	83229-08-15	07:41	G	32120054.61	32120054.82	32120055.07	0.0088	0.0060	
Saturn	83235-04-03	18:15	G	32122111.99	32122112.26	32122112.54	0.0267	0.0090	
Uranus	83244-08-31	05:17	G	32125549.57	32125549.72	32125549.90	0.0143	0.0120	
Saturn	83249-03-30	20:24	G	32127222.07	32127222.35	32127222.64	0.0294	0.0075	
Jupiter	83258-08-01	19:27	G	32130633.09	32130633.31	32130633.55	0.0529	0.0277	
Uranus	83288-10-08	01:12	G	32141658.25	32141658.55	32141658.86	0.0135	0.0022	
Neptune	83309-06-04	23:17	G	32149202.24	32149202.47	32149202.73	0.0089	0.0056	
Neptune	83311-04-30	23:17	G	32149897.42	32149897.47	32149897.60	0.0089	0.0086	
Saturn	83323-08-29	12:58	G	32154400.82	32154401.04	32154401.29	0.0266	0.0160	
Uranus	83329-04-27	13:41	G	32156468.77	32156469.07	32156469.38	0.0143	0.0015	
Saturn	83337-08-25	05:32	G	32159510.47	32159510.73	32159510.99	0.0295	0.0133	

Pluto	83340-07-11 16:48 G	32160561.89	32160562.20	32160562.52	0.0079	0.0014
Neptune	83393-03-31 00:00 G	32179817.19	32179817.50	32179817.82	0.0088	0.0007
Saturn	83412-01-24 06:00 G	32186689.61	32186689.75	32186689.93	0.0266	0.0225
Saturn	83426-01-19 07:12 G	32191798.58	32191798.80	32191799.04	0.0294	0.0180
Jupiter	83442-01-23 22:20 G	32197647.29	32197647.43	32197647.58	0.0499	0.0429
Uranus	83456-02-27 04:48 G	32202794.41	32202794.70	32202795.01	0.0135	0.0036
Neptune	83474-12-14 06:15 G	32209659.47	32209659.76	32209660.07	0.0089	0.0027
Uranus	83496-09-14 03:36 G	32217604.39	32217604.65	32217604.94	0.0143	0.0064
Jupiter	83531-04-18 14:39 G	32230237.95	32230238.11	32230238.28	0.0528	0.0412
Uranus	83540-10-23 07:27 G	32233713.58	32233713.81	32233714.05	0.0135	0.0087
Neptune	83556-11-14 12:15 G	32239579.76	32239580.01	32239580.28	0.0088	0.0049
Saturn	83558-09-28 05:17 G	32240262.54	32240262.72	32240262.91	0.0266	0.0209
Neptune	83558-10-10 04:05 G	32240274.58	32240274.67	32240274.77	0.0088	0.0083
Uranus	83581-05-11 20:39 G	32248524.12	32248524.36	32248524.63	0.0143	0.0077
Pluto	83588-10-19 22:20 G	32251242.29	32251242.43	32251242.62	0.0079	0.0068
Jupiter	83596-04-19 12:44 G	32253980.75	32253981.03	32253981.31	0.0499	0.0034
Uranus	83623-07-17 13:56 G	32263930.87	32263931.08	32263931.34	0.0135	0.0088
Neptune	83638-07-29 14:10 G	32269421.81	32269422.09	32269422.39	0.0090	0.0033
Saturn	83647-02-22 21:22 G	32272552.13	32272552.39	32272552.68	0.0266	0.0105
Uranus	83664-02-02 05:46 G	32278740.63	32278740.74	32278740.89	0.0143	0.0130
Jupiter	83685-07-11 22:48 G	32286571.18	32286571.45	32286571.71	0.0528	0.0044
Uranus	83708-03-12 16:34 G	32294849.89	32294850.19	32294850.49	0.0135	0.0034
Neptune	83722-05-25 16:05 G	32300036.88	32300037.17	32300037.48	0.0088	0.0028
Saturn	83735-07-21 00:29 G	32304841.23	32304841.52	32304841.82	0.0266	0.0026
Uranus	83748-09-29 02:10 G	32309660.29	32309660.59	32309660.90	0.0143	0.0015
Saturn	83749-07-14 11:03 G	32309948.74	32309948.96	32309949.20	0.0295	0.0182
Jupiter	83750-07-14 13:27 G	32310313.84	32310314.06	32310314.29	0.0499	0.0296
Neptune	83804-02-07 17:17 G	32329878.96	32329879.22	32329879.50	0.0090	0.0047
Saturn	83823-12-16 04:48 G	32337130.42	32337130.70	32337131.00	0.0266	0.0057
Saturn	83837-12-09 14:53 G	32342237.85	32342238.12	32342238.40	0.0295	0.0086

Jupiter	83839-10-07 11:32 G	32342904.79	32342904.98	32342905.19	0.0528	0.0352
Uranus	83875-08-01 03:36 G	32355986.35	32355986.65	32355986.96	0.0135	0.0018
Neptune	83886-01-08 02:10 G	32359799.31	32359799.59	32359799.91	0.0088	0.0027
Saturn	83912-05-11 07:27 G	32369418.53	32369418.81	32369419.09	0.0266	0.0090
Uranus	83916-02-17 17:46 G	32370795.97	32370796.24	32370796.53	0.0143	0.0058
Saturn	83926-05-06 04:05 G	32374526.38	32374526.67	32374526.96	0.0296	0.0027
Uranus	83960-03-27 05:32 G	32386905.55	32386905.73	32386905.95	0.0135	0.0102
Neptune	83967-09-22 23:17 G	32389641.17	32389641.47	32389641.78	0.0090	0.0014
Saturn	84000-10-04 17:32 G	32401706.99	32401707.23	32401707.49	0.0265	0.0143
Uranus	84000-10-13 05:17 G	32401715.48	32401715.72	32401715.99	0.0143	0.0078

85TH MILLENNIUM CE

This is a list of transits of Mars in the 85th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	84014-09-29 04:20 G		32406814.39	32406814.68	32406814.97	0.0296	0.0010	
Jupiter	84023-03-31 05:17 G		32409919.45	32409919.72	32409919.99	0.0500	0.0138	
Uranus	84042-12-19 21:51 G		32417123.16	32417123.41	32417123.70	0.0135	0.0064	
Neptune	84049-08-23 10:20 G		32419561.86	32419561.93	32419562.07	0.0088	0.0083	
Neptune	84051-07-19 05:46 G		32420256.50	32420256.74	32420257.02	0.0088	0.0050	
Uranus	84083-07-06 06:58 G		32431931.67	32431931.79	32431931.91	0.0144	0.0132	
Saturn	84089-02-27 06:44 G		32433994.56	32433994.78	32433995.04	0.0265	0.0156	
Saturn	84103-02-22 09:08 G		32439101.60	32439101.88	32439102.17	0.0297	0.0009	
Jupiter	84112-06-24 03:36 G		32442511.39	32442511.65	32442511.91	0.0526	0.0075	

Uranus	84127-08-15 23:32 G	32448042.22	32448042.48	32448042.78	0.0135	0.0057
Neptune	84131-05-08 06:44 G	32449403.62	32449403.78	32449403.97	0.0090	0.0074
Neptune	84133-04-02 00:29 G	32450098.33	32450098.52	32450098.77	0.0090	0.0064
Uranus	84168-03-02 03:22 G	32462851.34	32462851.64	32462851.95	0.0144	0.0011
Jupiter	84177-06-25 13:12 G	32466253.86	32466254.05	32466254.25	0.0500	0.0357
Saturn	84177-07-24 16:20 G	32466283.00	32466283.18	32466283.36	0.0264	0.0209
Saturn	84191-07-18 06:15 G	32471389.48	32471389.76	32471390.05	0.0297	0.0038
Uranus	84210-05-10 18:44 G	32478260.12	32478260.28	32478260.49	0.0135	0.0107
Neptune	84215-03-04 15:51 G	32480018.84	32480019.16	32480019.48	0.0088	0.0005
Saturn	84265-12-18 19:12 G	32498571.22	32498571.30	32498571.41	0.0264	0.0250
Jupiter	84266-09-19 15:36 G	32498846.03	32498846.15	32498846.30	0.0527	0.0451
Saturn	84279-12-11 17:32 G	32503676.94	32503677.23	32503677.51	0.0297	0.0053
Uranus	84295-01-03 20:24 G	32509179.05	32509179.35	32509179.66	0.0135	0.0012
Neptune	84296-11-15 08:53 G	32509860.56	32509860.87	32509861.18	0.0090	0.0003
Uranus	84335-07-22 04:05 G	32523987.39	32523987.67	32523987.97	0.0144	0.0052
Saturn	84368-05-07 20:39 G	32535966.12	32535966.36	32535966.62	0.0297	0.0147
Neptune	84378-10-17 22:05 G	32539781.22	32539781.42	32539781.68	0.0088	0.0061
Uranus	84379-08-30 20:10 G	32540098.27	32540098.34	32540098.45	0.0135	0.0128
Neptune	84380-09-11 18:58 G	32540476.15	32540476.29	32540476.51	0.0088	0.0072
Saturn	84412-08-22 00:00 G	32552143.33	32552143.50	32552143.70	0.0264	0.0208
Uranus	84420-03-16 23:03 G	32554907.24	32554907.46	32554907.72	0.0144	0.0089
Jupiter	84450-03-11 13:41 G	32565858.80	32565859.07	32565859.34	0.0501	0.0162
Saturn	84456-10-01 19:56 G	32568255.17	32568255.33	32568255.51	0.0296	0.0238
Neptune	84460-06-30 17:17 G	32569623.00	32569623.22	32569623.48	0.0090	0.0056
Uranus	84462-05-24 15:36 G	32570315.85	32570316.15	32570316.44	0.0134	0.0035
Neptune	84462-05-26 11:03 G	32570317.82	32570317.96	32570318.09	0.0090	0.0080
Saturn	84501-01-17 16:05 G	32584432.89	32584433.17	32584433.44	0.0264	0.0103
Uranus	84502-12-08 09:51 G	32585122.79	32585122.91	32585123.06	0.0144	0.0129
Jupiter	84539-06-05 17:46 G	32598451.00	32598451.24	32598451.48	0.0525	0.0228
Neptune	84544-04-27 05:03 G	32600238.40	32600238.71	32600239.03	0.0088	0.0017

Uranus	84547-01-18 14:10 G	32601234.86	32601235.09	32601235.35	0.0135	0.0081
Uranus	84587-08-04 03:22 G	32616042.34	32616042.64	32616042.96	0.0144	0.0010
Saturn	84589-06-14 04:20 G	32616722.38	32616722.68	32616722.98	0.0264	0.0008
Jupiter	84604-06-05 11:03 G	32622191.69	32622191.96	32622192.23	0.0501	0.0156
Neptune	84626-01-09 19:41 G	32630080.04	32630080.32	32630080.64	0.0090	0.0022
Uranus	84629-10-13 12:58 G	32631452.81	32631453.04	32631453.30	0.0134	0.0079
Saturn	84677-11-09 18:00 G	32649011.98	32649012.25	32649012.54	0.0264	0.0094
Saturn	84691-10-31 21:22 G	32654116.24	32654116.39	32654116.56	0.0297	0.0244
Jupiter	84693-08-30 00:15 G	32654784.25	32654784.51	32654784.77	0.0525	0.0107
Neptune	84707-12-12 12:29 G	32660000.75	32660001.02	32660001.33	0.0088	0.0038
Uranus	84714-06-09 09:36 G	32662371.62	32662371.90	32662372.20	0.0135	0.0035
Uranus	84754-12-22 15:51 G	32677177.89	32677178.16	32677178.46	0.0144	0.0062
Saturn	84766-04-06 07:12 G	32681300.57	32681300.80	32681301.07	0.0264	0.0149
Saturn	84780-03-28 04:48 G	32686405.46	32686405.70	32686405.95	0.0298	0.0148
Neptune	84789-08-25 10:20 G	32689842.65	32689842.93	32689843.21	0.0090	0.0036
Uranus	84797-03-03 10:05 G	32692589.83	32692589.92	32692590.06	0.0134	0.0124
Uranus	84839-08-18 14:39 G	32708097.86	32708098.11	32708098.38	0.0144	0.0081
Saturn	84854-08-31 00:29 G	32713589.36	32713589.52	32713589.71	0.0263	0.0214
Saturn	84868-08-21 17:17 G	32718693.95	32718694.22	32718694.50	0.0298	0.0087
Neptune	84873-06-20 20:10 G	32720458.06	32720458.34	32720458.63	0.0088	0.0041
Jupiter	84877-02-17 22:34 G	32721796.28	32721796.44	32721796.61	0.0503	0.0411
Uranus	84881-10-27 04:20 G	32723508.38	32723508.68	32723508.98	0.0134	0.0012
Uranus	84922-05-11 05:17 G	32738313.59	32738313.72	32738313.86	0.0144	0.0129
Saturn	84943-01-24 16:48 G	32745877.08	32745877.20	32745877.35	0.0263	0.0233
Neptune	84955-03-05 14:24 G	32750299.86	32750300.10	32750300.40	0.0090	0.0043
Saturn	84957-01-15 06:44 G	32750981.51	32750981.78	32750982.06	0.0298	0.0075
Jupiter	84966-05-17 11:32 G	32754390.80	32754390.98	32754391.17	0.0523	0.0370
Uranus	84966-06-22 22:48 G	32754427.25	32754427.45	32754427.66	0.0135	0.0100

86TH MILLENNIUM CE

This is a list of transits of Mars in the 86th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	85007-01-05 20:53	G	32769233.06	32769233.37	32769233.69	0.0144	0.0008	
Jupiter	85031-05-17 07:27	G	32778130.52	32778130.81	32778131.09	0.0503	0.0098	
Neptune	85037-02-04 03:51	G	32780220.35	32780220.66	32780220.99	0.0088	0.0011	
Saturn	85045-06-11 00:15	G	32783269.23	32783269.51	32783269.79	0.0299	0.0053	
Uranus	85049-03-17 21:08	G	32784645.11	32784645.38	32784645.65	0.0134	0.0061	
Uranus	85091-09-01 10:34	G	32800152.90	32800152.94	32800153.01	0.0144	0.0141	
Neptune	85118-10-20 07:12	G	32810062.51	32810062.80	32810063.12	0.0090	0.0013	
Jupiter	85120-08-13 03:51	G	32810725.41	32810725.66	32810725.91	0.0524	0.0166	
Saturn	85133-11-04 01:56	G	32815556.31	32815556.58	32815556.86	0.0299	0.0061	
Uranus	85133-11-11 14:10	G	32815563.82	32815564.09	32815564.38	0.0134	0.0050	
Uranus	85174-05-24 13:41	G	32830367.82	32830368.07	32830368.35	0.0144	0.0076	
Saturn	85178-02-20 04:34	G	32831735.61	32831735.69	32831735.78	0.0262	0.0251	
Neptune	85200-09-19 10:34	G	32839982.73	32839982.94	32839983.18	0.0088	0.0063	
Neptune	85202-08-15 12:29	G	32840677.86	32840678.02	32840678.25	0.0088	0.0070	
Uranus	85216-08-05 13:56	G	32845781.93	32845782.08	32845782.27	0.0134	0.0110	
Saturn	85222-03-30 12:15	G	32847844.72	32847845.01	32847845.29	0.0299	0.0006	
Uranus	85259-01-18 10:05	G	32861287.64	32861287.92	32861288.21	0.0144	0.0063	
Saturn	85266-07-17 01:41	G	32864024.36	32864024.57	32864024.81	0.0262	0.0175	
Neptune	85282-06-04 03:51	G	32869825.47	32869825.66	32869825.89	0.0090	0.0065	
Neptune	85284-04-28 14:39	G	32870519.93	32870520.11	32870520.32	0.0090	0.0068	

Uranus	85301-04-01 05:17 G	32876700.42	32876700.72	32876701.02	0.0135	0.0002
Jupiter	85304-01-31 11:32 G	32877735.79	32877735.98	32877736.18	0.0504	0.0374
Saturn	85310-08-24 18:44 G	32880133.00	32880133.28	32880133.56	0.0298	0.0052
Saturn	85354-12-12 06:29 G	32896313.49	32896313.77	32896314.06	0.0262	0.0087
Neptune	85366-03-30 22:05 G	32900440.11	32900440.42	32900440.75	0.0088	0.0019
Uranus	85385-11-24 18:58 G	32907619.13	32907619.29	32907619.49	0.0135	0.0108
Jupiter	85393-04-29 07:27 G	32910331.63	32910331.81	32910331.99	0.0522	0.0372
Saturn	85399-01-19 17:03 G	32912422.99	32912423.21	32912423.44	0.0299	0.0184
Uranus	85426-06-07 18:44 G	32922422.97	32922423.28	32922423.60	0.0144	0.0007
Saturn	85443-05-09 17:46 G	32928602.94	32928603.24	32928603.55	0.0263	0.0009
Neptune	85447-12-14 12:44 G	32930282.73	32930283.03	32930283.33	0.0090	0.0016
Jupiter	85458-04-26 10:05 G	32934068.63	32934068.92	32934069.21	0.0504	0.0037
Uranus	85468-08-19 18:29 G	32937837.01	32937837.27	32937837.56	0.0135	0.0052
Uranus	85511-02-02 14:10 G	32953342.98	32953343.09	32953343.23	0.0144	0.0131
Neptune	85529-11-14 04:05 G	32960202.40	32960202.67	32960203.00	0.0088	0.0033
Saturn	85531-10-05 12:00 G	32960892.74	32960893.00	32960893.28	0.0263	0.0121
Jupiter	85547-07-25 11:46 G	32966664.73	32966664.99	32966665.25	0.0523	0.0062
Uranus	85553-04-15 06:15 G	32968755.50	32968755.76	32968756.05	0.0135	0.0053
Uranus	85593-10-24 11:32 G	32983557.74	32983557.98	32983558.26	0.0144	0.0086
Neptune	85611-07-30 12:00 G	32990045.73	32990046.00	32990046.29	0.0090	0.0034
Jupiter	85612-07-20 17:03 G	32990402.02	32990402.21	32990402.43	0.0503	0.0353
Saturn	85620-02-29 14:39 G	32993181.92	32993182.11	32993182.31	0.0263	0.0199
Uranus	85636-01-08 07:56 G	32998973.67	32998973.83	32998974.04	0.0134	0.0106
Uranus	85678-06-20 02:10 G	33014477.30	33014477.59	33014477.91	0.0144	0.0047
Neptune	85693-06-28 11:32 G	33019964.90	33019964.98	33019965.10	0.0088	0.0083
Neptune	85695-05-24 17:17 G	33020659.99	33020660.22	33020660.52	0.0088	0.0051
Jupiter	85701-10-19 02:53 G	33022998.42	33022998.62	33022998.82	0.0522	0.0324
Uranus	85720-09-02 18:29 G	33029891.97	33029892.27	33029892.57	0.0135	0.0002
Saturn	85722-07-15 23:03 G	33030573.29	33030573.46	33030573.66	0.0299	0.0224
Neptune	85775-03-15 14:10 G	33049808.99	33049809.09	33049809.21	0.0090	0.0083

Neptune	85777-02-06 21:08 G	33050503.16	33050503.38	33050503.67	0.0090	0.0048
Uranus	85805-04-29 05:17 G	33060810.54	33060810.72	33060810.92	0.0135	0.0103
Saturn	85810-12-10 02:53 G	33062861.40	33062861.62	33062861.85	0.0300	0.0183
Uranus	85845-11-06 18:00 G	33075611.94	33075612.25	33075612.56	0.0144	0.0034
Saturn	85855-03-28 17:03 G	33079041.20	33079041.21	33079041.23	0.0261	0.0261
Neptune	85859-01-08 02:39 G	33080422.28	33080422.61	33080422.93	0.0088	0.0001
Jupiter	85885-04-04 19:41 G	33090006.07	33090006.32	33090006.58	0.0506	0.0250
Uranus	85888-01-22 06:58 G	33091028.53	33091028.79	33091029.07	0.0135	0.0056
Saturn	85899-05-05 00:00 G	33095149.26	33095149.50	33095149.74	0.0300	0.0156
Uranus	85930-07-04 18:58 G	33106532.10	33106532.29	33106532.53	0.0143	0.0107
Neptune	85940-09-24 01:12 G	33110266.25	33110266.55	33110266.85	0.0090	0.0002
Saturn	85943-08-22 21:08 G	33111329.20	33111329.38	33111329.56	0.0261	0.0211
Uranus	85972-09-16 16:34 G	33121946.93	33121947.19	33121947.49	0.0135	0.0049
Jupiter	85974-07-07 05:46 G	33122605.49	33122605.74	33122606.00	0.0521	0.0095
Saturn	85987-09-27 23:32 G	33127436.26	33127436.48	33127436.72	0.0300	0.0173

87TH MILLENNIUM CE

This is a list of transits of Mars in the 87th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	86013-03-25 19:12 G	33136747.09	33136747.30	33136747.53	0.0144	0.0104		
Neptune	86022-08-23 08:10 G	33140184.58	33140184.84	33140185.12	0.0088	0.0049		
Neptune	86024-07-18 16:34 G	33140880.12	33140880.19	33140880.32	0.0088	0.0084		
Saturn	86032-01-15 13:41 G	33143616.86	33143617.07	33143617.30	0.0261	0.0185		

Jupiter	86039-07-02 01:27 G	33146341.38	33146341.56	33146341.75	0.0505	0.0391
Uranus	86055-06-11 18:58 G	33152165.15	33152165.29	33152165.49	0.0135	0.0110
Saturn	86076-02-20 20:53 G	33159724.13	33159724.37	33159724.62	0.0301	0.0147
Uranus	86097-11-19 17:03 G	33167666.90	33167667.21	33167667.53	0.0143	0.0034
Neptune	86104-05-10 03:51 G	33170029.44	33170029.66	33170029.93	0.0090	0.0051
Neptune	86106-04-04 11:46 G	33170723.87	33170723.99	33170724.15	0.0090	0.0079
Saturn	86120-06-11 00:44 G	33175905.27	33175905.53	33175905.81	0.0261	0.0126
Jupiter	86128-10-02 02:24 G	33178940.49	33178940.60	33178940.73	0.0521	0.0460
Uranus	86140-02-05 04:34 G	33183083.40	33183083.69	33183083.99	0.0134	0.0007
Saturn	86164-07-16 11:17 G	33192011.73	33192011.97	33192012.23	0.0300	0.0128
Neptune	86188-03-03 00:44 G	33200642.25	33200642.53	33200642.85	0.0088	0.0036
Saturn	86208-11-05 18:00 G	33208193.95	33208194.25	33208194.55	0.0261	0.0056
Uranus	86224-09-30 12:44 G	33214001.84	33214002.03	33214002.26	0.0134	0.0095
Jupiter	86247-03-25 12:58 G	33222212.96	33222213.04	33222213.12	0.0520	0.0492
Saturn	86252-12-11 17:03 G	33224300.93	33224301.21	33224301.49	0.0301	0.0033
Uranus	86265-04-07 20:24 G	33228801.06	33228801.35	33228801.66	0.0144	0.0053
Neptune	86269-11-18 15:08 G	33230486.87	33230487.13	33230487.43	0.0090	0.0031
Saturn	86297-04-02 00:15 G	33240483.21	33240483.51	33240483.82	0.0262	0.0032
Uranus	86307-06-26 17:46 G	33244220.00	33244220.24	33244220.52	0.0134	0.0062
Jupiter	86312-03-16 11:32 G	33245944.75	33245944.98	33245945.23	0.0507	0.0290
Saturn	86341-05-08 23:32 G	33256590.21	33256590.48	33256590.75	0.0300	0.0073
Uranus	86349-12-03 16:05 G	33259720.93	33259721.17	33259721.46	0.0143	0.0083
Neptune	86351-10-18 07:56 G	33260404.51	33260404.83	33260405.16	0.0088	0.0013
Saturn	86385-08-28 17:32 G	33272772.99	33272773.23	33272773.51	0.0261	0.0144
Uranus	86392-02-19 01:27 G	33275138.28	33275138.56	33275138.85	0.0135	0.0040
Jupiter	86401-06-18 21:51 G	33278546.16	33278546.41	33278546.65	0.0520	0.0168
Saturn	86429-10-04 07:56 G	33288880.66	33288880.83	33288881.03	0.0300	0.0227
Uranus	86432-08-24 06:29 G	33289935.66	33289935.77	33289935.91	0.0144	0.0132
Neptune	86433-07-04 21:36 G	33290250.11	33290250.40	33290250.70	0.0090	0.0018
Jupiter	86466-06-09 17:03 G	33302277.92	33302278.21	33302278.50	0.0506	0.0096

Saturn	86474-01-23 03:36 G	33305062.52	33305062.65	33305062.78	0.0262	0.0235
Uranus	86474-11-13 09:08 G	33305356.73	33305356.88	33305357.04	0.0135	0.0114
Neptune	86515-06-02 12:29 G	33320166.82	33320167.02	33320167.29	0.0088	0.0063
Uranus	86517-04-21 12:44 G	33320855.71	33320856.03	33320856.36	0.0143	0.0010
Neptune	86517-04-28 00:29 G	33320862.35	33320862.52	33320862.73	0.0088	0.0071
Jupiter	86555-09-13 05:17 G	33334879.48	33334879.72	33334879.97	0.0520	0.0158
Uranus	86559-07-09 14:53 G	33336274.83	33336275.12	33336275.41	0.0135	0.0014
Neptune	86597-02-18 04:20 G	33350013.50	33350013.68	33350013.91	0.0090	0.0065
Neptune	86599-01-13 08:24 G	33350707.64	33350707.85	33350708.07	0.0090	0.0062
Jupiter	86620-09-03 20:53 G	33358611.26	33358611.37	33358611.48	0.0507	0.0469
Saturn	86620-09-26 21:08 G	33358634.24	33358634.38	33358634.53	0.0261	0.0230
Uranus	86644-03-03 23:03 G	33367193.26	33367193.46	33367193.71	0.0135	0.0087
Neptune	86680-12-11 04:48 G	33380624.39	33380624.70	33380625.03	0.0088	0.0022
Uranus	86684-09-07 01:41 G	33381990.30	33381990.57	33381990.88	0.0144	0.0066
Saturn	86709-02-21 04:20 G	33390922.47	33390922.68	33390922.92	0.0261	0.0180
Uranus	86726-11-28 06:29 G	33397411.54	33397411.77	33397412.04	0.0134	0.0068
Saturn	86753-03-29 06:44 G	33407029.69	33407029.78	33407029.90	0.0301	0.0279
Neptune	86762-08-30 14:24 G	33410470.82	33410471.10	33410471.40	0.0090	0.0015
Uranus	86769-05-04 21:51 G	33412910.14	33412910.41	33412910.71	0.0144	0.0068
Saturn	86797-07-17 15:51 G	33423210.89	33423211.16	33423211.45	0.0260	0.0117
Uranus	86811-07-23 14:24 G	33428329.82	33428330.10	33428330.39	0.0134	0.0032
Jupiter	86828-05-31 00:58 G	33434486.35	33434486.54	33434486.74	0.0519	0.0327
Saturn	86841-08-21 13:27 G	33439316.97	33439317.06	33439317.16	0.0301	0.0281
Neptune	86844-07-26 07:12 G	33440386.49	33440386.80	33440387.12	0.0088	0.0028
Saturn	86885-12-10 07:56 G	33455498.55	33455498.83	33455499.13	0.0260	0.0090
Jupiter	86893-05-19 18:00 G	33458215.96	33458216.25	33458216.55	0.0508	0.0014
Uranus	86894-04-17 01:27 G	33458548.43	33458548.56	33458548.70	0.0134	0.0119
Uranus	86896-03-16 20:24 G	33459248.31	33459248.35	33459248.43	0.0134	0.0132
Neptune	86926-04-15 20:10 G	33470234.08	33470234.34	33470234.63	0.0090	0.0033
Saturn	86930-01-15 05:03 G	33471604.60	33471604.71	33471604.83	0.0301	0.0271

Uranus	86936-09-19 23:46 G	33474044.17	33474044.49	33474044.82	0.0144	0.0016
Saturn	86974-05-06 11:03 G	33487786.66	33487786.96	33487787.27	0.0260	0.0042
Uranus	86978-12-11 08:24 G	33489466.56	33489466.85	33489467.14	0.0134	0.0020
Jupiter	86982-08-27 01:27 G	33490821.34	33490821.56	33490821.79	0.0519	0.0240

88TH MILLENNIUM CE

This is a list of transits of Mars in the 88th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	87008-03-11 06:29 G		33500148.65	33500148.77	33500148.93	0.0088	0.0079	
Neptune	87010-02-04 22:20 G		33500844.18	33500844.43	33500844.70	0.0088	0.0055	
Saturn	87018-06-10 06:29 G		33503891.69	33503891.77	33503891.88	0.0301	0.0282	
Uranus	87021-05-18 06:00 G		33504964.61	33504964.75	33504964.93	0.0144	0.0125	
Saturn	87062-09-30 12:44 G		33520074.71	33520075.03	33520075.34	0.0260	0.0004	
Uranus	87063-08-06 14:24 G		33520384.88	33520385.10	33520385.35	0.0134	0.0081	
Neptune	87089-11-30 03:36 G		33529997.54	33529997.65	33529997.80	0.0090	0.0080	
Neptune	87091-10-25 04:48 G		33530691.46	33530691.70	33530691.97	0.0090	0.0045	
Uranus	87104-02-07 18:29 G		33535179.01	33535179.27	33535179.54	0.0144	0.0085	
Saturn	87106-11-04 16:34 G		33536180.03	33536180.19	33536180.37	0.0301	0.0232	
Uranus	87146-05-02 05:17 G		33550603.48	33550603.72	33550603.98	0.0134	0.0068	
Saturn	87151-02-25 05:17 G		33552363.42	33552363.72	33552364.03	0.0261	0.0071	
Neptune	87173-09-19 19:56 G		33560606.00	33560606.33	33560606.67	0.0088	0.0004	
Uranus	87188-10-04 02:39 G		33566099.33	33566099.61	33566099.93	0.0144	0.0059	
Saturn	87195-03-31 05:46 G		33568468.52	33568468.74	33568468.97	0.0301	0.0166	

Pluto	87223-06-29 20:10 G	33578786.13	33578786.34	33578786.60	0.0064	0.0040
Uranus	87230-12-25 12:15 G	33581521.73	33581522.01	33581522.30	0.0134	0.0031
Saturn	87239-07-22 12:29 G	33584652.79	33584653.02	33584653.27	0.0261	0.0166
Jupiter	87255-05-14 20:24 G	33590428.13	33590428.35	33590428.57	0.0518	0.0254
Neptune	87255-06-10 10:05 G	33590454.63	33590454.92	33590455.22	0.0090	0.0004
Saturn	87283-08-26 03:36 G	33600758.38	33600758.65	33600758.93	0.0301	0.0036
Uranus	87313-09-20 05:32 G	33611740.60	33611740.73	33611740.90	0.0134	0.0115
Uranus	87315-08-20 20:53 G	33612440.35	33612440.37	33612440.45	0.0134	0.0133
Jupiter	87320-04-28 21:08 G	33614153.11	33614153.38	33614153.66	0.0508	0.0215
Neptune	87337-05-04 17:17 G	33620367.94	33620368.22	33620368.51	0.0088	0.0047
Neptune	87339-03-31 09:08 G	33621063.81	33621063.88	33621063.96	0.0088	0.0085
Uranus	87356-02-20 05:46 G	33627233.43	33627233.74	33627234.08	0.0144	0.0022
Saturn	87372-01-22 03:22 G	33633048.38	33633048.64	33633048.90	0.0301	0.0104
Uranus	87398-05-15 13:27 G	33642658.77	33642659.06	33642659.35	0.0134	0.0015
Jupiter	87409-08-09 01:41 G	33646761.32	33646761.57	33646761.82	0.0518	0.0049
Neptune	87419-01-25 14:53 G	33650217.92	33650218.12	33650218.39	0.0090	0.0053
Neptune	87420-12-19 15:08 G	33650911.98	33650912.13	33650912.33	0.0090	0.0072
Uranus	87440-10-17 07:27 G	33658153.64	33658153.81	33658154.03	0.0144	0.0115
Saturn	87460-06-19 06:29 G	33665338.63	33665338.77	33665338.93	0.0301	0.0251
Pluto	87471-10-09 22:05 G	33669468.15	33669468.42	33669468.71	0.0064	0.0022
Jupiter	87474-07-23 16:20 G	33670485.89	33670486.18	33670486.47	0.0509	0.0124
Saturn	87474-08-21 00:00 G	33670514.29	33670514.50	33670514.72	0.0261	0.0188
Uranus	87483-01-08 22:20 G	33673577.23	33673577.43	33673577.67	0.0134	0.0086
Neptune	87502-11-14 04:05 G	33680825.38	33680825.67	33680826.00	0.0088	0.0034
Uranus	87523-07-09 08:10 G	33688367.63	33688367.84	33688368.10	0.0144	0.0101
Pluto	87561-03-19 02:24 G	33702135.31	33702135.60	33702135.94	0.0080	0.0027
Saturn	87563-01-15 20:10 G	33702803.07	33702803.34	33702803.63	0.0261	0.0114
Jupiter	87563-11-03 10:48 G	33703094.78	33703094.95	33703095.13	0.0518	0.0370
Uranus	87565-10-04 18:00 G	33703796.01	33703796.25	33703796.52	0.0134	0.0059
Neptune	87584-08-04 19:56 G	33710675.05	33710675.33	33710675.62	0.0090	0.0022

Uranus	87608-03-04 22:20 G	33719288.12	33719288.43	33719288.75	0.0144	0.0044
Uranus	87650-05-30 02:53 G	33734714.35	33734714.62	33734714.90	0.0134	0.0043
Saturn	87651-06-11 16:20 G	33735091.87	33735092.18	33735092.50	0.0260	0.0034
Neptune	87666-06-27 20:39 G	33740587.04	33740587.36	33740587.70	0.0088	0.0020
Uranus	87733-02-23 01:56 G	33764933.41	33764933.58	33764933.80	0.0134	0.0100
Saturn	87739-11-05 12:15 G	33767379.69	33767380.01	33767380.32	0.0260	0.0002
Jupiter	87747-04-07 08:39 G	33770089.82	33770089.86	33770089.91	0.0510	0.0504
Neptune	87748-03-21 00:00 G	33770438.24	33770438.50	33770438.80	0.0090	0.0029
Uranus	87775-07-22 17:17 G	33780422.90	33780423.22	33780423.55	0.0144	0.0022
Uranus	87817-10-19 12:00 G	33795851.71	33795852.00	33795852.29	0.0134	0.0001
Saturn	87828-03-31 13:56 G	33799667.78	33799668.08	33799668.40	0.0260	0.0049
Neptune	87830-02-10 10:20 G	33800348.75	33800348.93	33800349.12	0.0088	0.0073
Neptune	87832-01-07 06:15 G	33801044.53	33801044.76	33801045.02	0.0088	0.0060
Jupiter	87836-07-22 08:24 G	33802702.60	33802702.85	33802703.10	0.0516	0.0024
Uranus	87860-03-19 02:10 G	33811343.43	33811343.59	33811343.79	0.0144	0.0120
Jupiter	87901-07-03 21:36 G	33826424.10	33826424.40	33826424.70	0.0510	0.0065
Uranus	87902-06-14 21:36 G	33826770.22	33826770.40	33826770.60	0.0134	0.0100
Neptune	87911-11-06 02:24 G	33830201.50	33830201.60	33830201.78	0.0090	0.0079
Neptune	87913-09-30 01:27 G	33830895.32	33830895.56	33830895.84	0.0090	0.0044
Saturn	87916-08-25 08:24 G	33831955.56	33831955.85	33831956.16	0.0260	0.0084
Uranus	87942-12-08 14:39 G	33841556.91	33841557.11	33841557.38	0.0144	0.0104
Uranus	87985-03-10 00:15 G	33856989.24	33856989.51	33856989.79	0.0134	0.0039
Neptune	87995-08-21 19:27 G	33860805.97	33860806.31	33860806.65	0.0088	0.0006

89TH MILLENNIUM CE

This is a list of transits of Mars in the 89th millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Saturn	88005-01-18	15:51	G	33864243.91	33864244.16	33864244.44	0.0260	0.0137	
Uranus	88027-08-05	00:29	G	33872477.20	33872477.52	33872477.84	0.0144	0.0038	
Uranus	88069-11-02	09:08	G	33887907.64	33887907.88	33887908.15	0.0134	0.0061	
Neptune	88077-05-15	02:53	G	33890658.33	33890658.62	33890658.91	0.0090	0.0009	
Saturn	88093-06-14	10:20	G	33896532.75	33896532.93	33896533.12	0.0260	0.0210	
Jupiter	88109-04-10	02:10	G	33902310.41	33902310.59	33902310.78	0.0516	0.0348	
Saturn	88137-07-18	18:29	G	33912637.20	33912637.27	33912637.36	0.0301	0.0285	
Uranus	88152-07-29	13:27	G	33918126.84	33918127.06	33918127.31	0.0134	0.0077	
Neptune	88159-04-05	07:27	G	33920567.53	33920567.81	33920568.09	0.0088	0.0049	
Neptune	88161-03-01	04:20	G	33921263.61	33921263.68	33921263.79	0.0088	0.0084	
Uranus	88194-12-21	16:05	G	33933611.86	33933612.17	33933612.51	0.0144	0.0030	
Pluto	88214-09-21	15:51	G	33940824.91	33940825.16	33940825.44	0.0064	0.0029	
Saturn	88225-12-14	08:39	G	33944926.64	33944926.86	33944927.09	0.0300	0.0169	
Uranus	88237-03-25	00:15	G	33949045.23	33949045.51	33949045.79	0.0134	0.0024	
Neptune	88240-12-30	06:15	G	33950421.56	33950421.76	33950421.99	0.0090	0.0061	
Neptune	88242-11-24	01:56	G	33951115.40	33951115.58	33951115.83	0.0090	0.0061	
Jupiter	88263-07-05	12:15	G	33958643.76	33958644.01	33958644.27	0.0516	0.0027	
Uranus	88279-08-19	10:20	G	33964532.77	33964532.93	33964533.15	0.0144	0.0120	
Pluto	88304-02-27	12:58	G	33973489.72	33973490.04	33973490.39	0.0080	0.0012	
Saturn	88314-05-12	15:08	G	33977216.85	33977217.13	33977217.40	0.0301	0.0017	
Uranus	88319-12-20	06:15	G	33979264.63	33979264.76	33979264.94	0.0134	0.0112	
Uranus	88321-11-18	11:03	G	33979963.89	33979963.96	33979964.08	0.0134	0.0126	
Neptune	88324-10-14	14:53	G	33981024.81	33981025.12	33981025.45	0.0088	0.0029	
Jupiter	88328-06-11	00:15	G	33982360.26	33982360.51	33982360.78	0.0511	0.0255	
Saturn	88328-07-14	03:51	G	33982393.44	33982393.66	33982393.91	0.0261	0.0173	
Uranus	88362-05-10	09:22	G	33994746.65	33994746.89	33994747.16	0.0144	0.0094	

Saturn	88402-10-07 16:20 G	34009506.94	34009507.18	34009507.43	0.0301	0.0126
Uranus	88404-08-13 17:03 G	34010182.93	34010183.21	34010183.50	0.0134	0.0011
Neptune	88406-07-10 04:34 G	34010878.41	34010878.69	34010878.99	0.0090	0.0008
Saturn	88416-12-08 13:12 G	34014682.75	34014683.05	34014683.36	0.0261	0.0075
Jupiter	88417-09-28 15:22 G	34014976.92	34014977.14	34014977.36	0.0516	0.0245
Uranus	88447-01-04 19:12 G	34025667.00	34025667.30	34025667.63	0.0144	0.0048
Jupiter	88482-09-04 14:24 G	34038693.82	34038694.10	34038694.38	0.0511	0.0192
Neptune	88488-05-28 01:27 G	34040786.25	34040786.56	34040786.90	0.0088	0.0026
Uranus	88489-04-08 04:20 G	34041101.48	34041101.68	34041101.90	0.0134	0.0090
Saturn	88491-03-04 01:27 G	34041796.39	34041796.56	34041796.73	0.0301	0.0235
Saturn	88505-05-06 00:58 G	34046972.22	34046972.54	34046972.86	0.0261	0.0033
Neptune	88570-02-23 06:44 G	34070641.54	34070641.78	34070642.04	0.0090	0.0045
Uranus	88572-01-03 10:48 G	34071320.70	34071320.95	34071321.23	0.0134	0.0046
Neptune	88572-01-18 02:53 G	34071335.46	34071335.62	34071335.78	0.0090	0.0075
Saturn	88593-09-29 10:20 G	34079260.63	34079260.93	34079261.23	0.0260	0.0094
Uranus	88614-05-23 16:20 G	34086800.86	34086801.18	34086801.52	0.0144	0.0031
Neptune	88652-01-11 09:22 G	34100547.78	34100547.89	34100548.05	0.0088	0.0080
Neptune	88653-12-07 09:51 G	34101243.66	34101243.91	34101244.20	0.0088	0.0053
Uranus	88656-08-28 20:39 G	34102239.11	34102239.36	34102239.63	0.0134	0.0054
Saturn	88682-02-23 17:17 G	34111548.97	34111549.22	34111549.49	0.0260	0.0152
Jupiter	88690-06-17 02:39 G	34114584.38	34114584.61	34114584.85	0.0514	0.0178
Uranus	88699-01-18 12:58 G	34117721.85	34117722.04	34117722.24	0.0144	0.0118
Pluto	88709-05-25 00:00 G	34121500.21	34121500.50	34121500.80	0.0063	0.0012
Neptune	88735-09-04 05:17 G	34131098.46	34131098.72	34131099.02	0.0090	0.0024
Uranus	88739-05-26 03:22 G	34132458.44	34132458.64	34132458.88	0.0134	0.0082
Jupiter	88755-05-20 19:41 G	34138297.24	34138297.32	34138297.42	0.0512	0.0488
Saturn	88770-07-20 07:27 G	34143836.59	34143836.81	34143837.05	0.0260	0.0180
Uranus	88781-10-09 07:41 G	34147935.57	34147935.82	34147936.08	0.0144	0.0094
Neptune	88817-07-21 18:43 G	34161004.94	34161005.28	34161005.62	0.0088	0.0002
Uranus	88824-01-18 12:43 G	34163376.76	34163377.03	34163377.32	0.0134	0.0018

Jupiter	88844-09-12 00:15 G	34170919.33	34170919.51	34170919.70	0.0515	0.0351
Saturn	88844-10-09 21:22 G	34170947.36	34170947.39	34170947.44	0.0301	0.0298
Saturn	88858-12-13 03:22 G	34176124.48	34176124.64	34176124.84	0.0261	0.0217
Uranus	88866-06-06 08:24 G	34178856.55	34178856.85	34178857.17	0.0144	0.0057
Neptune	88899-04-19 10:34 G	34190861.68	34190861.94	34190862.23	0.0090	0.0028
Uranus	88906-10-14 20:24 G	34193596.24	34193596.35	34193596.51	0.0134	0.0118
Uranus	88908-09-12 21:36 G	34194295.29	34194295.40	34194295.56	0.0134	0.0118
Jupiter	88909-08-15 19:55 G	34194632.04	34194632.33	34194632.62	0.0511	0.0155
Jupiter	88963-03-06 12:15 G	34214192.91	34214193.01	34214193.12	0.0514	0.0463
Neptune	88981-03-05 01:41 G	34220766.33	34220766.57	34220766.86	0.0088	0.0056
Neptune	88983-01-30 04:19 G	34221462.53	34221462.68	34221462.86	0.0088	0.0077
Uranus	88991-06-09 03:51 G	34224514.38	34224514.66	34224514.94	0.0134	0.0019

90TH MILLENNIUM CE

This is a list of transits of Mars in the 90th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	89033-10-23 08:10 G	34239990.51	34239990.84	34239991.18	0.0144	0.0019		
Neptune	89062-12-04 16:05 G	34250625.05	34250625.17	34250625.35	0.0090	0.0077		
Neptune	89064-10-28 10:48 G	34251318.71	34251318.95	34251319.22	0.0090	0.0042		
Uranus	89076-02-02 12:29 G	34255432.81	34255433.02	34255433.27	0.0134	0.0079		
Jupiter	89117-06-01 07:12 G	34270526.55	34270526.80	34270527.05	0.0514	0.0088		
Uranus	89118-06-20 15:07 G	34270910.95	34270911.13	34270911.33	0.0144	0.0117		
Neptune	89146-09-14 12:00 G	34281223.69	34281224.00	34281224.35	0.0088	0.0024		

Uranus	89158-10-29 17:03 G	34285651.97	34285652.21	34285652.48	0.0134	0.0060
Saturn	89182-06-05 14:53 G	34294271.89	34294272.12	34294272.37	0.0262	0.0174
Uranus	89201-03-09 21:22 G	34301124.18	34301124.39	34301124.66	0.0144	0.0101
Neptune	89228-06-13 17:31 G	34311081.95	34311082.23	34311082.53	0.0090	0.0007
Uranus	89243-06-23 22:34 G	34316570.18	34316570.44	34316570.72	0.0134	0.0037
Saturn	89256-08-29 04:34 G	34321385.47	34321385.69	34321385.92	0.0300	0.0160
Saturn	89270-10-31 04:19 G	34326561.38	34326561.68	34326562.00	0.0262	0.0067
Jupiter	89271-08-25 09:07 G	34326859.65	34326859.88	34326860.12	0.0514	0.0174
Uranus	89285-11-04 15:07 G	34332044.83	34332045.13	34332045.47	0.0144	0.0044
Pluto	89293-06-28 22:34 G	34334838.10	34334838.44	34334838.78	0.0081	0.0006
Neptune	89310-04-28 20:53 G	34340985.07	34340985.37	34340985.72	0.0088	0.0030
Uranus	89326-03-20 02:53 G	34346789.46	34346789.62	34346789.82	0.0135	0.0103
Uranus	89328-02-17 02:39 G	34347488.59	34347488.61	34347488.69	0.0134	0.0133
Jupiter	89336-07-23 02:53 G	34350567.36	34350567.62	34350567.89	0.0512	0.0251
Saturn	89345-01-25 04:19 G	34353675.41	34353675.68	34353675.95	0.0300	0.0017
Saturn	89359-03-29 01:27 G	34358851.24	34358851.56	34358851.87	0.0262	0.0060
Neptune	89392-01-29 04:34 G	34370845.48	34370845.69	34370845.94	0.0090	0.0054
Neptune	89393-12-22 20:10 G	34371539.16	34371539.34	34371539.56	0.0090	0.0064
Uranus	89410-11-13 07:55 G	34377707.55	34377707.83	34377708.12	0.0134	0.0007
Jupiter	89425-11-19 20:53 G	34383193.31	34383193.37	34383193.44	0.0514	0.0492
Saturn	89433-06-22 15:51 G	34385964.91	34385965.16	34385965.42	0.0301	0.0096
Saturn	89447-08-24 00:43 G	34391140.26	34391140.53	34391140.79	0.0261	0.0147
Pluto	89450-06-18 10:48 G	34392169.67	34392169.95	34392170.25	0.0063	0.0012
Uranus	89453-03-24 02:10 G	34393179.26	34393179.59	34393179.93	0.0144	0.0022
Neptune	89473-12-11 04:05 G	34400746.59	34400746.67	34400746.84	0.0088	0.0082
Neptune	89475-11-07 09:51 G	34401442.65	34401442.91	34401443.21	0.0088	0.0051
Jupiter	89490-10-17 07:41 G	34406900.53	34406900.82	34406901.11	0.0513	0.0148
Uranus	89495-07-08 11:03 G	34408625.78	34408625.96	34408626.20	0.0134	0.0090
Saturn	89521-11-16 23:46 G	34418253.27	34418253.49	34418253.73	0.0301	0.0151
Saturn	89536-01-18 20:24 G	34423429.21	34423429.35	34423429.51	0.0261	0.0230

Uranus	89537-11-19 15:36 G	34424099.99	34424100.15	34424100.36	0.0144	0.0120
Jupiter	89544-05-13 04:19 G	34426466.51	34426466.68	34426466.87	0.0512	0.0355
Neptune	89557-08-09 08:39 G	34431302.59	34431302.86	34431303.15	0.0090	0.0018
Uranus	89578-04-03 16:34 G	34438844.94	34438845.19	34438845.47	0.0134	0.0050
Saturn	89610-04-12 00:00 G	34450541.30	34450541.50	34450541.73	0.0301	0.0178
Uranus	89620-08-08 16:19 G	34454312.95	34454313.18	34454313.43	0.0144	0.0101
Neptune	89639-06-21 20:24 G	34461204.01	34461204.35	34461204.70	0.0088	0.0001
Uranus	89662-11-26 19:41 G	34469763.06	34469763.32	34469763.59	0.0134	0.0045
Jupiter	89698-08-07 22:48 G	34482801.21	34482801.45	34482801.69	0.0513	0.0146
Saturn	89698-09-04 01:55 G	34482828.35	34482828.58	34482828.81	0.0300	0.0158
Uranus	89705-04-05 23:17 G	34485233.14	34485233.47	34485233.80	0.0144	0.0035
Neptune	89721-03-25 20:53 G	34491066.11	34491066.37	34491066.66	0.0090	0.0028
Neptune	89723-02-17 13:12 G	34491760.04	34491760.05	34491760.11	0.0090	0.0089
Uranus	89745-08-22 22:19 G	34499982.26	34499982.43	34499982.65	0.0135	0.0096
Jupiter	89763-07-02 05:03 G	34506504.55	34506504.71	34506504.88	0.0513	0.0430
Saturn	89787-01-28 15:07 G	34515115.90	34515116.13	34515116.36	0.0301	0.0154
Neptune	89803-02-04 06:29 G	34520965.51	34520965.77	34520966.08	0.0088	0.0050
Neptune	89804-12-31 12:00 G	34521661.93	34521662.00	34521662.16	0.0088	0.0083
Uranus	89830-04-18 00:15 G	34530900.23	34530900.51	34530900.79	0.0135	0.0003
Uranus	89872-08-21 18:43 G	34546366.97	34546367.28	34546367.62	0.0143	0.0040
Saturn	89875-06-24 03:07 G	34547403.41	34547403.63	34547403.87	0.0300	0.0156
Neptune	89884-11-09 12:00 G	34550829.86	34550830.00	34550830.21	0.0090	0.0072
Neptune	89886-10-04 02:53 G	34551523.39	34551523.62	34551523.89	0.0090	0.0045
Uranus	89914-12-12 02:24 G	34561818.40	34561818.60	34561818.81	0.0135	0.0091
Jupiter	89917-09-28 01:41 G	34562839.29	34562839.57	34562839.85	0.0513	0.0197
Uranus	89957-04-19 15:07 G	34577287.92	34577288.13	34577288.38	0.0143	0.0105
Saturn	89963-11-18 19:41 G	34579692.14	34579692.32	34579692.51	0.0300	0.0216
Neptune	89968-08-15 00:15 G	34581423.20	34581423.51	34581423.85	0.0088	0.0033
Jupiter	89971-04-28 01:55 G	34582409.35	34582409.58	34582409.82	0.0512	0.0178
Uranus	89997-09-06 04:34 G	34592037.45	34592037.69	34592037.97	0.0135	0.0051

91ST MILLENNIUM CE

This is a list of transits of Mars in the 91st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	90036-04-26 16:34	G	34606149.96	34606150.19	34606150.43	0.0263	0.0181	
Uranus	90040-01-07 21:51	G	34607501.22	34607501.41	34607501.66	0.0143	0.0110	
Neptune	90050-05-20 19:27	G	34611287.02	34611287.31	34611287.60	0.0090	0.0001	
Uranus	90082-05-01 06:58	G	34622955.53	34622955.79	34622956.06	0.0135	0.0044	
Uranus	90124-09-04 10:19	G	34638421.60	34638421.93	34638422.27	0.0143	0.0029	
Saturn	90124-09-22 01:55	G	34638439.27	34638439.58	34638439.89	0.0264	0.0081	
Jupiter	90125-07-22 10:19	G	34638742.69	34638742.93	34638743.18	0.0513	0.0117	
Neptune	90132-03-29 12:29	G	34641184.68	34641185.02	34641185.37	0.0088	0.0016	
Uranus	90165-01-25 09:51	G	34653174.74	34653174.91	34653175.13	0.0135	0.0097	
Saturn	90198-12-18 08:39	G	34665554.80	34665554.86	34665554.93	0.0298	0.0288	
Saturn	90213-02-18 04:19	G	34670729.36	34670729.68	34670730.00	0.0263	0.0057	
Neptune	90214-01-05 11:17	G	34671050.74	34671050.97	34671051.24	0.0090	0.0042	
Neptune	90215-11-30 02:24	G	34671744.46	34671744.60	34671744.79	0.0090	0.0073	
Uranus	90249-09-20 12:15	G	34684092.73	34684093.01	34684093.30	0.0135	0.0005	
Jupiter	90279-10-16 16:19	G	34695076.03	34695076.18	34695076.35	0.0512	0.0394	
Saturn	90287-05-16 09:22	G	34697844.66	34697844.89	34697845.13	0.0299	0.0147	
Uranus	90292-01-20 11:46	G	34699554.70	34699554.99	34699555.32	0.0143	0.0059	
Neptune	90295-11-11 23:17	G	34700946.26	34700946.47	34700946.72	0.0088	0.0065	
Neptune	90297-10-08 07:55	G	34701642.61	34701642.83	34701643.05	0.0088	0.0067	

Saturn	90301-07-16 18:29 G	34703019.04	34703019.27	34703019.53	0.0263	0.0172
Uranus	90334-05-16 11:31 G	34715010.79	34715010.98	34715011.22	0.0135	0.0087
Jupiter	90344-09-03 05:03 G	34718773.50	34718773.71	34718773.92	0.0515	0.0369
Saturn	90375-10-11 13:12 G	34730133.79	34730134.05	34730134.32	0.0299	0.0046
Uranus	90376-09-16 22:34 G	34730475.18	34730475.44	34730475.75	0.0143	0.0080
Neptune	90377-08-22 04:34 G	34730814.62	34730814.69	34730814.82	0.0090	0.0084
Neptune	90379-07-16 18:29 G	34731508.01	34731508.27	34731508.55	0.0090	0.0031
Jupiter	90398-04-08 18:00 G	34738349.20	34738349.25	34738349.32	0.0511	0.0493
Uranus	90417-02-08 14:24 G	34745229.85	34745230.10	34745230.36	0.0135	0.0055
Uranus	90459-06-07 05:17 G	34760688.61	34760688.72	34760688.85	0.0143	0.0134
Neptune	90461-05-22 20:24 G	34761404.03	34761404.35	34761404.71	0.0088	0.0020
Saturn	90464-03-06 04:34 G	34762422.43	34762422.69	34762422.96	0.0299	0.0015
Jupiter	90498-11-28 05:31 G	34775107.44	34775107.73	34775108.03	0.0514	0.0141
Uranus	90501-10-04 13:26 G	34776147.80	34776148.06	34776148.34	0.0135	0.0037
Pluto	90527-05-07 07:12 G	34785493.53	34785493.80	34785494.13	0.0081	0.0041
Neptune	90543-03-02 12:58 G	34791271.76	34791272.04	34791272.33	0.0090	0.0012
Uranus	90544-02-03 00:14 G	34791609.17	34791609.51	34791609.85	0.0143	0.0010
Jupiter	90552-07-04 04:05 G	34794683.42	34794683.67	34794683.92	0.0512	0.0049
Saturn	90552-07-30 16:05 G	34794709.90	34794710.17	34794710.43	0.0299	0.0019
Uranus	90584-06-29 17:02 G	34806367.05	34806367.21	34806367.40	0.0135	0.0104
Uranus	90586-05-29 14:10 G	34807066.04	34807066.09	34807066.20	0.0135	0.0130
Neptune	90625-01-05 07:26 G	34821165.49	34821165.81	34821166.15	0.0088	0.0029
Saturn	90640-12-24 03:07 G	34826997.37	34826997.63	34826997.90	0.0299	0.0011
Uranus	90669-02-22 18:14 G	34837284.98	34837285.26	34837285.54	0.0135	0.0011
Jupiter	90706-10-01 01:26 G	34851018.48	34851018.56	34851018.65	0.0512	0.0479
Neptune	90706-10-18 05:31 G	34851035.53	34851035.73	34851035.99	0.0090	0.0054
Neptune	90708-09-10 19:41 G	34851729.14	34851729.32	34851729.56	0.0090	0.0061
Uranus	90711-06-21 13:41 G	34852742.78	34852743.07	34852743.38	0.0143	0.0068
Saturn	90729-05-19 06:29 G	34859284.50	34859284.77	34859285.04	0.0298	0.0012
Uranus	90753-10-18 19:55 G	34868203.11	34868203.33	34868203.55	0.0135	0.0082

Jupiter	90771-08-14 12:43 G	34874711.82	34874712.03	34874712.24	0.0515	0.0374
Pluto	90773-09-27 13:55 G	34875486.77	34875487.08	34875487.43	0.0081	0.0020
Neptune	90788-08-19 18:29 G	34880927.11	34880927.27	34880927.45	0.0088	0.0076
Neptune	90790-07-17 03:22 G	34881623.40	34881623.64	34881623.94	0.0088	0.0055
Uranus	90796-02-15 18:29 G	34883662.99	34883663.27	34883663.60	0.0143	0.0067
Saturn	90801-10-23 10:34 G	34885739.82	34885739.94	34885740.08	0.0265	0.0241
Saturn	90817-10-12 05:46 G	34891572.47	34891572.74	34891573.01	0.0298	0.0006
Jupiter	90825-03-23 19:41 G	34894292.13	34894292.32	34894292.53	0.0511	0.0298
Uranus	90836-07-13 21:50 G	34898422.18	34898422.41	34898422.68	0.0135	0.0059
Neptune	90872-04-26 12:43 G	34911492.75	34911493.03	34911493.31	0.0090	0.0018
Saturn	90890-03-18 19:55 G	34918028.09	34918028.33	34918028.58	0.0265	0.0177
Saturn	90906-03-08 17:17 G	34923860.96	34923861.22	34923861.48	0.0298	0.0057
Uranus	90921-03-08 23:17 G	34929340.20	34929340.47	34929340.75	0.0135	0.0033
Jupiter	90925-11-09 00:29 G	34931046.25	34931046.52	34931046.80	0.0514	0.0212
Neptune	90954-02-28 14:53 G	34941384.78	34941385.12	34941385.48	0.0088	0.0008
Uranus	90963-07-03 00:58 G	34944796.20	34944796.54	34944796.88	0.0143	0.0016
Saturn	90978-08-13 15:36 G	34950316.86	34950317.15	34950317.46	0.0266	0.0101
Jupiter	90979-06-18 13:26 G	34950625.82	34950626.06	34950626.31	0.0512	0.0059
Saturn	90994-08-03 05:02 G	34956150.51	34956150.71	34956150.94	0.0298	0.0170

92ND MILLENNIUM CE

This is a list of transits of Mars in the 92nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
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Uranus	91003-12-04 00:00 G	34959559.36	34959559.50	34959559.69	0.0135	0.0109
Uranus	91005-11-01 21:50 G	34960258.32	34960258.41	34960258.54	0.0135	0.0124
Pluto	91020-02-19 08:10 G	34965480.54	34965480.84	34965481.15	0.0081	0.0037
Neptune	91035-12-13 06:14 G	34971256.50	34971256.76	34971257.05	0.0090	0.0024
Neptune	91037-11-05 19:12 G	34971950.27	34971950.30	34971950.33	0.0090	0.0089
Uranus	91048-02-28 18:43 G	34975717.13	34975717.28	34975717.45	0.0143	0.0126
Saturn	91067-01-09 08:53 G	34982606.55	34982606.87	34982607.20	0.0265	0.0024
Uranus	91088-07-28 02:10 G	34990477.31	34990477.59	34990477.87	0.0135	0.0016
Neptune	91117-10-13 23:02 G	35001146.16	35001146.46	35001146.78	0.0088	0.0041
Uranus	91130-11-19 00:00 G	35005930.23	35005930.50	35005930.77	0.0143	0.0087
Jupiter	91133-09-12 19:12 G	35006959.11	35006959.30	35006959.49	0.0511	0.0331
Saturn	91155-06-07 02:38 G	35014896.35	35014896.61	35014896.89	0.0265	0.0147
Uranus	91173-03-23 03:07 G	35021395.41	35021395.63	35021395.87	0.0135	0.0077
Neptune	91199-07-29 23:17 G	35031020.30	35031020.47	35031020.69	0.0090	0.0066
Neptune	91201-06-22 12:14 G	35031713.78	35031714.01	35031714.26	0.0090	0.0047
Uranus	91215-07-16 14:38 G	35036850.80	35036851.11	35036851.44	0.0143	0.0053
Saturn	91229-09-03 15:22 G	35042014.06	35042014.14	35042014.24	0.0296	0.0279
Uranus	91255-12-17 08:53 G	35051614.63	35051614.87	35051615.13	0.0135	0.0061
Neptune	91283-04-23 17:46 G	35061603.96	35061604.24	35061604.57	0.0088	0.0042
Saturn	91318-01-30 00:14 G	35074303.30	35074303.51	35074303.73	0.0297	0.0177
Uranus	91340-08-11 11:31 G	35082532.71	35082532.98	35082533.26	0.0135	0.0032
Jupiter	91352-10-14 14:38 G	35086979.96	35086980.11	35086980.29	0.0515	0.0429
Neptune	91365-02-06 05:02 G	35091477.43	35091477.71	35091478.00	0.0090	0.0005
Uranus	91382-11-30 16:19 G	35097983.86	35097984.18	35097984.52	0.0143	0.0033
Jupiter	91406-05-31 11:31 G	35106565.76	35106565.98	35106566.20	0.0510	0.0226
Saturn	91406-06-26 06:14 G	35106591.52	35106591.76	35106592.00	0.0296	0.0128
Uranus	91423-05-08 16:19 G	35112752.03	35112752.18	35112752.37	0.0135	0.0106
Uranus	91425-04-06 14:53 G	35113451.02	35113451.12	35113451.23	0.0135	0.0124
Neptune	91446-12-07 00:29 G	35121365.18	35121365.52	35121365.88	0.0088	0.0008
Uranus	91467-07-29 00:58 G	35128904.31	35128904.54	35128904.79	0.0143	0.0102

Saturn	91478-11-27 09:36 G	35133043.78	35133043.90	35133044.06	0.0266	0.0241
Saturn	91494-11-19 02:38 G	35138879.37	35138879.61	35138879.86	0.0297	0.0115
Jupiter	91507-01-11 10:19 G	35143314.65	35143314.93	35143315.22	0.0516	0.0190
Uranus	91508-01-01 19:12 G	35143670.02	35143670.30	35143670.58	0.0135	0.0015
Neptune	91528-09-23 20:10 G	35151241.10	35151241.34	35151241.62	0.0090	0.0038
Neptune	91530-08-18 08:53 G	35151934.73	35151934.87	35151935.05	0.0090	0.0074
Uranus	91550-04-18 03:07 G	35159117.43	35159117.63	35159117.85	0.0143	0.0112
Jupiter	91560-08-26 06:14 G	35162900.55	35162900.76	35162900.97	0.0511	0.0279
Saturn	91567-04-22 23:31 G	35165331.29	35165331.48	35165331.69	0.0266	0.0209
Saturn	91583-04-14 07:41 G	35171166.58	35171166.82	35171167.06	0.0296	0.0134
Uranus	91592-08-25 21:50 G	35174588.18	35174588.41	35174588.64	0.0135	0.0078
Neptune	91610-07-21 05:02 G	35181126.48	35181126.71	35181127.01	0.0088	0.0058
Neptune	91612-06-16 17:02 G	35181823.04	35181823.21	35181823.42	0.0088	0.0073
Uranus	91634-12-14 00:14 G	35190038.18	35190038.51	35190038.85	0.0143	0.0031
Saturn	91655-09-15 08:53 G	35197618.67	35197618.87	35197619.11	0.0267	0.0196
Pluto	91668-01-10 19:12 G	35202119.02	35202119.30	35202119.59	0.0063	0.0012
Saturn	91671-09-06 19:26 G	35203454.08	35203454.31	35203454.54	0.0296	0.0144
Uranus	91675-05-22 04:34 G	35204807.44	35204807.69	35204807.94	0.0135	0.0059
Jupiter	91679-02-17 06:14 G	35206174.66	35206174.76	35206174.87	0.0510	0.0459
Neptune	91692-05-09 11:17 G	35211004.88	35211004.97	35211005.12	0.0090	0.0081
Neptune	91694-04-03 00:00 G	35211698.25	35211698.50	35211698.79	0.0090	0.0031
Saturn	91744-02-08 23:31 G	35229906.24	35229906.48	35229906.75	0.0267	0.0165
Uranus	91760-01-15 10:34 G	35235725.67	35235725.94	35235726.21	0.0135	0.0037
Saturn	91760-01-31 13:12 G	35235741.82	35235742.05	35235742.29	0.0295	0.0137
Neptune	91776-01-29 21:22 G	35241584.06	35241584.39	35241584.74	0.0088	0.0023
Jupiter	91779-09-25 15:50 G	35242918.93	35242919.16	35242919.40	0.0515	0.0328
Uranus	91802-05-02 01:26 G	35251172.23	35251172.56	35251172.89	0.0143	0.0038
Saturn	91832-07-05 01:26 G	35262194.27	35262194.56	35262194.86	0.0268	0.0121
Jupiter	91833-05-15 12:00 G	35262508.75	35262509.00	35262509.25	0.0511	0.0033
Uranus	91842-10-11 19:26 G	35265945.12	35265945.31	35265945.50	0.0135	0.0098

Uranus	91844-09-09 16:05 G	35266644.14	35266644.17	35266644.23	0.0135	0.0133
Saturn	91848-06-27 06:00 G	35268030.49	35268030.75	35268031.00	0.0295	0.0074
Neptune	91857-11-18 14:10 G	35271461.82	35271462.09	35271462.39	0.0090	0.0014
Uranus	91886-12-27 12:00 G	35282092.78	35282093.00	35282093.27	0.0143	0.0099
Pluto	91914-06-06 00:29 G	35292114.32	35292114.52	35292114.75	0.0063	0.0042
Saturn	91920-11-30 02:53 G	35294483.29	35294483.62	35294483.94	0.0268	0.0024
Uranus	91927-06-07 02:24 G	35296863.32	35296863.60	35296863.88	0.0135	0.0001
Jupiter	91933-12-21 12:58 G	35299252.75	35299253.04	35299253.33	0.0516	0.0164
Saturn	91936-11-22 15:22 G	35300319.87	35300320.14	35300320.40	0.0295	0.0028
Neptune	91939-09-14 00:43 G	35301345.20	35301345.53	35301345.87	0.0088	0.0027
Uranus	91969-09-16 10:05 G	35312305.72	35312305.92	35312306.11	0.0143	0.0118
Jupiter	91987-08-10 01:12 G	35318842.34	35318842.55	35318842.75	0.0510	0.0283

93RD MILLENNIUM CE

This is a list of transits of Mars in the 93rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	92009-04-26 15:22 G	35326772.84	35326773.14	35326773.45	0.0268	0.0091		
Uranus	92012-01-30 08:38 G	35327781.67	35327781.86	35327782.07	0.0135	0.0094		
Neptune	92021-07-05 01:55 G	35331225.38	35331225.58	35331225.81	0.0090	0.0058		
Neptune	92023-05-29 14:24 G	35331918.89	35331919.10	35331919.35	0.0090	0.0053		
Saturn	92025-04-19 16:05 G	35332609.97	35332610.17	35332610.40	0.0295	0.0177		
Uranus	92054-05-13 21:22 G	35343226.06	35343226.39	35343226.73	0.0143	0.0019		
Jupiter	92088-03-15 07:41 G	35355585.77	35355585.82	35355585.89	0.0515	0.0505		

Uranus	92094-10-25 16:19 G	35358000.92	35358001.18	35358001.45	0.0135	0.0042
Saturn	92097-09-21 18:58 G	35359063.16	35359063.29	35359063.45	0.0267	0.0238
Neptune	92103-04-28 02:38 G	35361106.47	35361106.61	35361106.81	0.0088	0.0077
Neptune	92105-03-24 14:24 G	35361802.84	35361803.10	35361803.40	0.0088	0.0052
Uranus	92179-06-20 23:02 G	35388919.21	35388919.46	35388919.72	0.0135	0.0054
Neptune	92187-01-13 02:38 G	35391682.33	35391682.61	35391682.90	0.0090	0.0007
Uranus	92221-09-30 04:05 G	35404360.36	35404360.67	35404361.00	0.0143	0.0046
Pluto	92250-03-21 13:26 G	35414759.90	35414760.06	35414760.27	0.0082	0.0069
Jupiter	92260-04-26 02:53 G	35418448.45	35418448.62	35418448.80	0.0509	0.0363
Uranus	92262-03-17 09:22 G	35419138.68	35419138.89	35419139.13	0.0135	0.0081
Neptune	92268-11-05 15:07 G	35421563.78	35421564.13	35421564.48	0.0088	0.0001
Uranus	92306-05-29 04:48 G	35435281.48	35435281.70	35435281.96	0.0143	0.0101
Saturn	92332-10-19 09:07 G	35444921.75	35444921.88	35444922.05	0.0269	0.0238
Uranus	92346-11-10 18:14 G	35450056.99	35450057.26	35450057.55	0.0135	0.0019
Saturn	92348-10-15 02:38 G	35450761.48	35450761.61	35450761.76	0.0294	0.0248
Neptune	92350-08-30 13:41 G	35451445.82	35451446.07	35451446.33	0.0090	0.0039
Neptune	92352-07-24 00:58 G	35452139.39	35452139.54	35452139.73	0.0090	0.0071
Jupiter	92360-11-26 19:12 G	35455187.12	35455187.30	35455187.50	0.0517	0.0403
Uranus	92389-02-15 09:50 G	35465494.71	35465494.91	35465495.14	0.0143	0.0111
Jupiter	92414-07-22 13:12 G	35474782.81	35474783.05	35474783.30	0.0509	0.0089
Saturn	92421-03-14 12:00 G	35477209.77	35477210.00	35477210.25	0.0268	0.0181
Uranus	92429-08-06 05:17 G	35480276.58	35480276.72	35480276.87	0.0135	0.0115
Uranus	92431-07-06 03:50 G	35480975.52	35480975.66	35480975.79	0.0135	0.0117
Neptune	92432-06-19 14:38 G	35481324.85	35481325.11	35481325.42	0.0088	0.0051
Neptune	92434-05-17 02:38 G	35482021.45	35482021.61	35482021.78	0.0088	0.0077
Saturn	92437-03-09 17:17 G	35483049.07	35483049.22	35483049.36	0.0293	0.0245
Uranus	92473-10-12 23:46 G	35496415.17	35496415.49	35496415.84	0.0143	0.0027
Saturn	92509-08-08 03:50 G	35509497.40	35509497.66	35509497.93	0.0269	0.0156
Uranus	92514-04-01 14:38 G	35511194.84	35511195.11	35511195.39	0.0135	0.0016
Neptune	92514-04-15 21:36 G	35511209.33	35511209.40	35511209.51	0.0090	0.0085

Jupiter	92515-02-22 17:46 G	35511521.98	35511522.24	35511522.51	0.0516	0.0239
Neptune	92516-03-09 11:17 G	35511902.70	35511902.97	35511903.24	0.0090	0.0024
Saturn	92525-08-03 03:22 G	35515336.53	35515336.64	35515336.78	0.0293	0.0257
Neptune	92597-12-29 00:58 G	35541782.23	35541782.54	35541782.90	0.0088	0.0026
Saturn	92597-12-31 12:00 G	35541784.72	35541785.00	35541785.28	0.0269	0.0136
Uranus	92598-11-24 22:19 G	35542113.22	35542113.43	35542113.67	0.0135	0.0081
Saturn	92613-12-27 12:58 G	35547623.95	35547624.04	35547624.14	0.0292	0.0270
Uranus	92641-02-28 16:05 G	35557548.87	35557549.17	35557549.51	0.0143	0.0049
Pluto	92651-09-25 23:31 G	35561410.21	35561410.48	35561410.77	0.0063	0.0016
Neptune	92679-10-24 18:58 G	35571666.03	35571666.29	35571666.58	0.0090	0.0022
Uranus	92681-08-21 04:48 G	35572332.47	35572332.70	35572332.98	0.0135	0.0057
Neptune	92681-09-17 07:26 G	35572359.77	35572359.81	35572359.90	0.0090	0.0087
Saturn	92686-05-26 22:48 G	35574072.16	35574072.45	35574072.75	0.0270	0.0119
Jupiter	92687-04-11 02:38 G	35574391.37	35574391.61	35574391.85	0.0510	0.0170
Saturn	92702-05-23 13:55 G	35579911.95	35579912.08	35579912.23	0.0292	0.0246
Uranus	92725-10-27 10:48 G	35588469.71	35588469.95	35588470.23	0.0143	0.0093
Neptune	92761-08-12 22:48 G	35601543.14	35601543.45	35601543.81	0.0088	0.0027
Uranus	92766-04-16 13:55 G	35603250.82	35603251.08	35603251.35	0.0135	0.0041
Saturn	92774-10-21 01:12 G	35606360.23	35606360.55	35606360.87	0.0271	0.0062
Jupiter	92787-11-07 18:43 G	35611126.05	35611126.28	35611126.52	0.0517	0.0318
Saturn	92790-10-17 05:17 G	35612200.52	35612200.72	35612200.93	0.0291	0.0188
Uranus	92808-07-17 06:29 G	35618683.57	35618683.77	35618684.01	0.0143	0.0109
Jupiter	92841-07-06 01:41 G	35630725.34	35630725.57	35630725.80	0.0510	0.0211
Neptune	92843-06-10 04:19 G	35631429.50	35631429.68	35631429.86	0.0090	0.0068
Neptune	92845-05-03 15:50 G	35632122.92	35632123.16	35632123.43	0.0090	0.0041
Uranus	92849-01-09 21:50 G	35633470.23	35633470.41	35633470.63	0.0136	0.0095
Saturn	92863-03-16 19:12 G	35638648.97	35638649.30	35638649.63	0.0271	0.0020
Saturn	92879-03-13 17:31 G	35644489.97	35644490.23	35644490.49	0.0291	0.0072
Uranus	92893-03-14 02:24 G	35649604.28	35649604.60	35649604.94	0.0143	0.0034
Neptune	92925-03-26 21:50 G	35661304.25	35661304.41	35661304.58	0.0088	0.0077

Neptune	92927-02-21 08:24 G	35662000.59	35662000.85	35662001.17	0.0088	0.0050
Uranus	92933-09-05 08:24 G	35664388.57	35664388.85	35664389.13	0.0135	0.0006
Jupiter	92942-02-01 01:41 G	35667459.28	35667459.57	35667459.88	0.0516	0.0091
Saturn	92951-08-12 13:26 G	35670938.81	35670939.06	35670939.34	0.0271	0.0154
Saturn	92967-08-09 17:17 G	35676779.96	35676780.22	35676780.48	0.0292	0.0068
Jupiter	92995-09-30 04:34 G	35687058.59	35687058.69	35687058.80	0.0510	0.0463

94TH MILLENNIUM CE

This is a list of transits of Mars in the 94th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	93008-12-19 02:10 G	35691886.31	35691886.59	35691886.87	0.0090	0.0005		
Uranus	93016-06-01 15:22 G	35694608.09	35694608.14	35694608.25	0.0136	0.0130		
Uranus	93018-05-01 18:43 G	35695307.12	35695307.28	35695307.46	0.0135	0.0107		
Saturn	93056-01-05 17:31 G	35709070.06	35709070.23	35709070.40	0.0292	0.0220		
Uranus	93060-07-31 03:36 G	35710738.32	35710738.65	35710738.98	0.0143	0.0035		
Neptune	93090-10-05 07:26 G	35721761.46	35721761.81	35721762.16	0.0088	0.0002		
Jupiter	93096-04-27 00:43 G	35723792.40	35723792.53	35723792.68	0.0516	0.0454		
Uranus	93101-01-26 00:58 G	35725526.27	35725526.54	35725526.82	0.0136	0.0031		
Jupiter	93114-03-23 19:41 G	35730331.24	35730331.32	35730331.43	0.0509	0.0469		
Pluto	93142-08-23 23:02 G	35740711.30	35740711.46	35740711.67	0.0063	0.0048		
Uranus	93145-03-28 15:07 G	35741658.90	35741659.13	35741659.37	0.0143	0.0102		
Neptune	93172-08-04 10:48 G	35751649.73	35751649.95	35751650.20	0.0090	0.0050		
Neptune	93174-06-28 23:17 G	35752343.29	35752343.47	35752343.72	0.0090	0.0059		

Uranus	93185-09-20 08:24 G	35756444.62	35756444.85	35756445.11	0.0136	0.0067
Uranus	93227-12-17 05:46 G	35771872.52	35771872.74	35771872.98	0.0142	0.0103
Pluto	93233-12-01 07:41 G	35774048.67	35774048.82	35774049.05	0.0082	0.0069
Neptune	93254-05-19 06:58 G	35781522.52	35781522.79	35781523.09	0.0088	0.0051
Neptune	93256-04-14 17:31 G	35782219.09	35782219.23	35782219.45	0.0088	0.0075
Uranus	93268-06-15 08:38 G	35786663.64	35786663.86	35786664.11	0.0136	0.0075
Jupiter	93268-06-16 18:29 G	35786665.02	35786665.27	35786665.52	0.0509	0.0085
Saturn	93275-02-03 02:38 G	35789087.38	35789087.61	35789087.85	0.0272	0.0189
Uranus	93312-08-14 00:58 G	35802793.22	35802793.54	35802793.88	0.0142	0.0038
Neptune	93338-02-12 11:02 G	35812106.69	35812106.96	35812107.25	0.0090	0.0015
Uranus	93353-02-08 18:43 G	35817582.01	35817582.28	35817582.57	0.0136	0.0024
Saturn	93363-06-30 05:02 G	35821375.45	35821375.71	35821376.00	0.0272	0.0142
Jupiter	93369-01-08 04:48 G	35823394.48	35823394.70	35823394.91	0.0517	0.0359
Pluto	93389-01-15 18:00 G	35830707.07	35830707.25	35830707.50	0.0063	0.0042
Neptune	93419-11-28 17:31 G	35841979.91	35841980.23	35841980.58	0.0088	0.0025
Jupiter	93422-09-13 10:19 G	35842999.77	35842999.93	35843000.08	0.0510	0.0400
Uranus	93435-11-05 18:58 G	35847801.17	35847801.29	35847801.45	0.0136	0.0119
Uranus	93437-10-05 02:10 G	35848500.47	35848500.59	35848500.72	0.0136	0.0121
Saturn	93451-11-23 13:12 G	35853662.76	35853663.05	35853663.35	0.0272	0.0120
Uranus	93479-12-31 18:00 G	35863927.92	35863928.25	35863928.59	0.0142	0.0021
Neptune	93501-09-30 00:29 G	35871870.26	35871870.52	35871870.81	0.0090	0.0029
Neptune	93503-08-24 12:29 G	35872563.89	35872564.02	35872564.15	0.0090	0.0079
Uranus	93520-07-01 06:29 G	35878719.49	35878719.77	35878720.06	0.0136	0.0017
Jupiter	93523-04-07 17:17 G	35879730.01	35879730.22	35879730.45	0.0517	0.0351
Saturn	93540-04-17 16:05 G	35885949.88	35885950.17	35885950.46	0.0273	0.0119
Jupiter	93541-03-07 06:14 G	35886273.58	35886273.76	35886273.95	0.0509	0.0346
Uranus	93564-08-28 05:31 G	35894848.54	35894848.73	35894848.93	0.0142	0.0115
Neptune	93583-07-12 19:41 G	35901740.99	35901741.32	35901741.66	0.0088	0.0024
Uranus	93605-02-23 14:24 G	35909637.88	35909638.10	35909638.33	0.0136	0.0081
Saturn	93628-09-10 01:12 G	35918237.26	35918237.55	35918237.87	0.0274	0.0096

Uranus	93647-05-18 18:00 G	35925062.01	35925062.25	35925062.52	0.0142	0.0092
Neptune	93665-05-15 12:29 G	35931633.87	35931634.02	35931634.23	0.0090	0.0070
Neptune	93667-04-09 02:38 G	35932327.37	35932327.61	35932327.89	0.0090	0.0038
Uranus	93687-11-19 13:12 G	35939856.82	35939857.05	35939857.32	0.0136	0.0062
Jupiter	93695-06-01 17:02 G	35942607.97	35942608.21	35942608.46	0.0509	0.0107
Saturn	93717-02-04 00:14 G	35950525.20	35950525.51	35950525.84	0.0274	0.0050
Uranus	93732-01-13 23:17 G	35955982.16	35955982.47	35955982.81	0.0142	0.0039
Saturn	93733-02-05 12:14 G	35956370.93	35956371.01	35956371.11	0.0287	0.0270
Neptune	93747-02-23 22:05 G	35961502.26	35961502.42	35961502.65	0.0088	0.0072
Neptune	93749-01-20 09:22 G	35962198.63	35962198.89	35962199.18	0.0088	0.0053
Uranus	93772-07-14 17:17 G	35970774.95	35970775.22	35970775.50	0.0136	0.0033
Jupiter	93795-12-20 04:19 G	35979333.44	35979333.68	35979333.93	0.0517	0.0305
Saturn	93805-07-01 23:46 G	35982814.17	35982814.49	35982814.81	0.0274	0.0050
Saturn	93821-07-03 23:31 G	35988660.27	35988660.48	35988660.71	0.0288	0.0163
Neptune	93830-11-24 17:02 G	35992090.93	35992091.21	35992091.50	0.0090	0.0003
Jupiter	93849-08-27 04:33 G	35998941.55	35998941.69	35998941.84	0.0509	0.0410
Uranus	93855-04-10 11:02 G	36000993.82	36000993.96	36000994.13	0.0137	0.0115
Uranus	93857-03-09 22:48 G	36001693.37	36001693.45	36001693.57	0.0136	0.0127
Pluto	93879-12-15 02:53 G	36010008.34	36010008.62	36010008.91	0.0063	0.0006
Saturn	93893-11-26 15:07 G	36015103.90	36015104.13	36015104.39	0.0274	0.0182
Uranus	93899-06-01 09:07 G	36017116.56	36017116.88	36017117.23	0.0142	0.0028
Saturn	93909-11-29 23:02 G	36020950.20	36020950.46	36020950.73	0.0288	0.0015
Neptune	93912-09-04 13:41 G	36021959.73	36021960.07	36021960.43	0.0088	0.0006
Uranus	93939-12-04 17:31 G	36031911.95	36031912.23	36031912.51	0.0136	0.0019
Jupiter	93950-03-16 08:09 G	36035666.54	36035666.84	36035667.14	0.0517	0.0076
Uranus	93984-01-27 22:19 G	36048037.22	36048037.43	36048037.65	0.0142	0.0110
Neptune	93994-07-11 08:53 G	36051854.64	36051854.87	36051855.15	0.0090	0.0043
Neptune	93996-06-03 21:21 G	36052548.20	36052548.39	36052548.60	0.0090	0.0064
Saturn	93998-04-27 00:43 G	36053240.30	36053240.53	36053240.78	0.0289	0.0129

95TH MILLENNIUM CE

This is a list of transits of Mars in the 95th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	94024-07-29 00:57	G	36062830.33	36062830.54	36062830.79	0.0136	0.0080	
Uranus	94066-10-17 22:05	G	36078251.18	36078251.42	36078251.70	0.0141	0.0090	
Neptune	94076-04-17 20:38	G	36081721.07	36081721.36	36081721.69	0.0088	0.0040	
Neptune	94078-03-15 06:29	G	36082417.70	36082417.77	36082417.90	0.0088	0.0084	
Saturn	94086-09-21 12:57	G	36085529.92	36085530.04	36085530.18	0.0289	0.0250	
Jupiter	94104-06-08 23:17	G	36091999.29	36091999.47	36091999.68	0.0517	0.0392	
Uranus	94107-04-24 20:09	G	36093049.11	36093049.34	36093049.61	0.0137	0.0067	
Jupiter	94122-05-14 03:21	G	36098547.41	36098547.64	36098547.87	0.0508	0.0221	
Saturn	94128-12-24 02:53	G	36100963.61	36100963.62	36100963.66	0.0275	0.0274	
Uranus	94151-06-15 02:09	G	36109171.27	36109171.59	36109171.91	0.0142	0.0041	
Neptune	94158-02-25 00:43	G	36111618.44	36111618.53	36111618.68	0.0090	0.0082	
Neptune	94160-01-19 15:21	G	36112311.87	36112312.14	36112312.42	0.0090	0.0025	
Uranus	94191-12-18 04:48	G	36123967.43	36123967.70	36123967.98	0.0136	0.0033	
Saturn	94217-05-21 05:31	G	36133252.50	36133252.73	36133252.99	0.0276	0.0179	
Neptune	94239-12-02 05:17	G	36141482.65	36141482.72	36141482.86	0.0088	0.0084	
Neptune	94241-10-28 14:09	G	36142178.81	36142179.09	36142179.43	0.0088	0.0039	
Uranus	94274-09-12 17:45	G	36154186.12	36154186.24	36154186.41	0.0137	0.0117	
Jupiter	94276-08-08 08:38	G	36154881.63	36154881.86	36154882.10	0.0509	0.0202	
Uranus	94276-08-12 08:24	G	36154885.78	36154885.85	36154885.97	0.0136	0.0129	
Saturn	94305-10-15 06:14	G	36165540.48	36165540.76	36165541.06	0.0275	0.0125	

Uranus	94318-10-31 21:07 G	36170305.05	36170305.38	36170305.70	0.0141	0.0035
Neptune	94323-09-06 06:57 G	36172075.52	36172075.79	36172076.09	0.0090	0.0014
Uranus	94359-05-08 22:48 G	36185104.17	36185104.45	36185104.74	0.0137	0.0021
Pluto	94370-11-12 10:48 G	36189309.84	36189309.95	36189310.14	0.0062	0.0054
Jupiter	94377-02-21 18:00 G	36191602.98	36191603.25	36191603.52	0.0518	0.0220
Saturn	94394-03-09 14:09 G	36197827.80	36197828.09	36197828.39	0.0276	0.0113
Uranus	94403-06-28 01:55 G	36201225.35	36201225.58	36201225.83	0.0142	0.0097
Neptune	94405-06-12 00:57 G	36201940.20	36201940.54	36201940.89	0.0088	0.0005
Uranus	94444-01-01 02:38 G	36216022.39	36216022.61	36216022.86	0.0137	0.0074
Pluto	94462-02-13 10:33 G	36222640.68	36222640.94	36222641.26	0.0082	0.0045
Saturn	94482-08-01 12:29 G	36230114.73	36230115.02	36230115.32	0.0277	0.0111
Uranus	94486-03-18 07:41 G	36231439.58	36231439.82	36231440.05	0.0141	0.0101
Neptune	94487-04-22 00:14 G	36231839.29	36231839.51	36231839.76	0.0090	0.0052
Neptune	94489-03-15 13:41 G	36232532.85	36232533.07	36232533.30	0.0090	0.0054
Uranus	94526-09-26 16:19 G	36246240.95	36246241.18	36246241.42	0.0137	0.0076
Jupiter	94531-05-21 00:57 G	36247938.39	36247938.54	36247938.68	0.0517	0.0447
Jupiter	94549-04-27 19:41 G	36254490.07	36254490.32	36254490.57	0.0508	0.0050
Neptune	94569-01-24 11:02 G	36261701.69	36261701.96	36261702.27	0.0088	0.0048
Uranus	94570-11-13 13:55 G	36262359.77	36262360.08	36262360.42	0.0141	0.0032
Neptune	94570-12-21 19:12 G	36262398.16	36262398.30	36262398.52	0.0088	0.0075
Saturn	94570-12-25 15:36 G	36262401.86	36262402.15	36262402.46	0.0278	0.0103
Uranus	94611-05-23 00:14 G	36277159.24	36277159.51	36277159.80	0.0137	0.0023
Pluto	94617-04-07 09:36 G	36279305.70	36279305.90	36279306.14	0.0063	0.0040
Neptune	94650-12-07 16:48 G	36291603.18	36291603.20	36291603.24	0.0090	0.0089
Neptune	94652-10-31 07:26 G	36292296.54	36292296.81	36292297.10	0.0090	0.0017
Saturn	94659-05-21 12:57 G	36294689.73	36294690.04	36294690.37	0.0278	0.0054
Uranus	94694-02-14 15:21 G	36307378.03	36307378.14	36307378.25	0.0137	0.0125
Uranus	94696-01-15 08:09 G	36308077.74	36308077.84	36308077.99	0.0136	0.0123
Jupiter	94703-07-24 18:00 G	36310824.06	36310824.25	36310824.45	0.0509	0.0325
Neptune	94734-08-06 06:57 G	36322159.47	36322159.79	36322160.12	0.0088	0.0031

Uranus	94738-04-01 16:33 G	36323493.87	36323494.19	36323494.51	0.0141	0.0040
Saturn	94747-10-16 09:36 G	36326978.58	36326978.90	36326979.22	0.0278	0.0043
Saturn	94763-10-24 16:05 G	36332831.00	36332831.17	36332831.36	0.0283	0.0209
Uranus	94778-10-10 22:33 G	36338296.17	36338296.44	36338296.73	0.0137	0.0026
Jupiter	94804-02-02 05:17 G	36347541.47	36347541.72	36347541.98	0.0518	0.0263
Neptune	94816-06-16 23:02 G	36352060.18	36352060.46	36352060.74	0.0090	0.0021
Neptune	94818-05-11 13:55 G	36352754.00	36352754.08	36352754.20	0.0090	0.0084
Uranus	94822-11-26 11:17 G	36354413.73	36354413.97	36354414.26	0.0141	0.0086
Saturn	94836-03-12 07:26 G	36359268.58	36359268.81	36359269.06	0.0278	0.0188
Saturn	94852-03-20 15:36 G	36365120.90	36365121.15	36365121.42	0.0284	0.0073
Uranus	94863-06-05 04:19 G	36369214.45	36369214.68	36369214.94	0.0137	0.0071
Neptune	94898-03-19 19:12 G	36381920.96	36381921.30	36381921.64	0.0088	0.0011
Uranus	94905-08-17 14:09 G	36384627.93	36384628.09	36384628.31	0.0141	0.0116
Saturn	94940-08-16 14:38 G	36397410.85	36397411.11	36397411.37	0.0285	0.0074
Uranus	94946-02-28 12:14 G	36399432.79	36399433.01	36399433.25	0.0137	0.0084
Jupiter	94958-04-27 17:17 G	36403873.93	36403874.22	36403874.52	0.0518	0.0027
Jupiter	94976-04-08 10:33 G	36410429.74	36410429.94	36410430.13	0.0507	0.0324
Neptune	94980-02-01 15:21 G	36411823.94	36411824.14	36411824.38	0.0090	0.0058
Neptune	94981-12-26 05:45 G	36412517.52	36412517.74	36412518.01	0.0090	0.0048
Uranus	94990-04-13 14:24 G	36415547.77	36415548.10	36415548.43	0.0141	0.0011

96TH MILLENNIUM CE

This is a list of transits of Mars in the 96th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Saturn	95029-01-12 03:36 G	36429700.46	36429700.65	36429700.86	0.0285	0.0189
Uranus	95030-10-24 19:12 G	36430351.01	36430351.30	36430351.59	0.0137	0.0013
Neptune	95061-11-02 07:26 G	36441682.54	36441682.81	36441683.09	0.0088	0.0053
Neptune	95063-09-29 14:09 G	36442378.87	36442379.09	36442379.31	0.0088	0.0067
Pluto	95108-03-05 15:36 G	36458606.88	36458607.15	36458607.44	0.0062	0.0014
Jupiter	95112-07-23 06:57 G	36460207.67	36460207.79	36460207.93	0.0518	0.0465
Uranus	95115-06-20 01:41 G	36461269.44	36461269.57	36461269.77	0.0137	0.0112
Saturn	95117-06-08 22:33 G	36461989.35	36461989.44	36461989.56	0.0285	0.0260
Jupiter	95130-07-05 02:38 G	36466763.36	36466763.61	36466763.87	0.0508	0.0026
Neptune	95145-08-12 23:02 G	36472281.18	36472281.46	36472281.75	0.0090	0.0011
Uranus	95157-08-31 04:19 G	36476682.39	36476682.68	36476683.00	0.0141	0.0054
Saturn	95159-09-04 13:41 G	36477416.86	36477417.07	36477417.32	0.0279	0.0196
Uranus	95198-03-14 15:21 G	36491487.88	36491488.14	36491488.43	0.0137	0.0038
Pluto	95199-06-04 19:55 G	36491935.00	36491935.33	36491935.68	0.0082	0.0019
Neptune	95227-05-14 03:07 G	36502140.30	36502140.63	36502140.96	0.0088	0.0025
Uranus	95242-04-27 03:50 G	36507602.39	36507602.66	36507602.95	0.0141	0.0075
Saturn	95248-01-28 13:12 G	36509704.78	36509705.05	36509705.32	0.0280	0.0153
Uranus	95282-11-07 01:55 G	36522406.34	36522406.58	36522406.85	0.0137	0.0065
Jupiter	95284-09-28 15:07 G	36523098.08	36523098.13	36523098.20	0.0508	0.0492
Saturn	95294-03-27 13:55 G	36526565.06	36526565.08	36526565.13	0.0285	0.0282
Neptune	95309-03-29 14:24 G	36532044.84	36532045.10	36532045.39	0.0090	0.0027
Neptune	95311-02-21 06:14 G	36532738.63	36532738.76	36532738.91	0.0090	0.0078
Uranus	95325-01-16 10:19 G	36537816.79	36537816.93	36537817.08	0.0141	0.0125
Saturn	95336-06-22 16:19 G	36541991.90	36541992.18	36541992.46	0.0280	0.0142
Uranus	95365-08-02 12:00 G	36552624.79	36552625.00	36552625.23	0.0137	0.0087
Saturn	95382-08-21 01:12 G	36558852.51	36558852.55	36558852.62	0.0284	0.0277
Jupiter	95385-04-06 19:26 G	36559812.01	36559812.31	36559812.60	0.0518	0.0069
Neptune	95390-12-26 16:33 G	36561901.86	36561902.19	36561902.53	0.0088	0.0016
Jupiter	95403-03-24 06:57 G	36566371.57	36566371.79	36566372.02	0.0507	0.0250

Uranus	95409-09-13 02:38 G	36568736.28	36568736.61	36568736.94	0.0141	0.0003
Saturn	95424-11-15 14:09 G	36574278.83	36574279.09	36574279.38	0.0281	0.0147
Uranus	95450-03-28 21:07 G	36583543.10	36583543.38	36583543.67	0.0137	0.0013
Saturn	95471-01-14 18:29 G	36591140.26	36591140.27	36591140.30	0.0283	0.0282
Neptune	95472-11-13 03:50 G	36591808.49	36591808.66	36591808.89	0.0090	0.0064
Neptune	95474-10-07 21:07 G	36592502.12	36592502.38	36592502.64	0.0090	0.0041
Uranus	95494-05-09 21:36 G	36599656.26	36599656.40	36599656.58	0.0141	0.0124
Saturn	95513-04-10 17:02 G	36606565.94	36606566.21	36606566.50	0.0282	0.0135
Uranus	95534-11-22 04:33 G	36614461.54	36614461.69	36614461.88	0.0137	0.0111
Neptune	95554-08-11 06:00 G	36621663.51	36621663.75	36621664.03	0.0088	0.0057
Neptune	95556-07-07 09:50 G	36622359.70	36622359.91	36622360.19	0.0088	0.0062
Jupiter	95557-06-18 16:04 G	36622705.93	36622706.17	36622706.41	0.0508	0.0192
Uranus	95577-01-29 12:57 G	36629870.77	36629871.04	36629871.33	0.0141	0.0073
Saturn	95601-09-03 13:55 G	36638853.78	36638854.08	36638854.39	0.0282	0.0085
Uranus	95617-08-16 11:02 G	36644679.69	36644679.96	36644680.24	0.0137	0.0044
Neptune	95638-05-24 10:48 G	36652265.66	36652265.95	36652266.24	0.0090	0.0004
Uranus	95661-09-25 12:43 G	36660790.75	36660791.03	36660791.35	0.0141	0.0057
Saturn	95690-01-28 12:14 G	36671142.69	36671143.01	36671143.33	0.0282	0.0014
Uranus	95702-04-12 00:28 G	36675598.27	36675598.52	36675598.79	0.0137	0.0060
Saturn	95706-02-13 18:43 G	36677002.12	36677002.28	36677002.43	0.0280	0.0226
Neptune	95720-02-19 23:02 G	36682121.13	36682121.46	36682121.80	0.0088	0.0019
Uranus	95744-06-17 09:50 G	36691005.85	36691005.91	36691006.01	0.0141	0.0136
Saturn	95778-06-26 10:04 G	36703432.66	36703432.92	36703433.18	0.0281	0.0165
Uranus	95785-01-04 09:36 G	36705816.69	36705816.90	36705817.13	0.0137	0.0091
Saturn	95794-07-11 16:04 G	36709291.92	36709292.17	36709292.43	0.0280	0.0085
Neptune	95802-01-08 23:31 G	36712029.23	36712029.48	36712029.77	0.0090	0.0035
Neptune	95803-12-03 16:33 G	36712723.02	36712723.19	36712723.38	0.0090	0.0070
Jupiter	95812-03-17 10:19 G	36715749.68	36715749.93	36715750.19	0.0518	0.0262
Uranus	95829-02-12 04:04 G	36721925.35	36721925.67	36721926.00	0.0141	0.0012
Jupiter	95830-03-05 13:40 G	36722311.93	36722312.07	36722312.23	0.0507	0.0408

Pluto	95845-06-26 08:38 G	36727903.58	36727903.86	36727904.14	0.0062	0.0013
Uranus	95869-08-31 02:09 G	36736735.31	36736735.59	36736735.88	0.0137	0.0016
Saturn	95882-12-07 13:40 G	36741581.81	36741582.07	36741582.34	0.0281	0.0047
Neptune	95883-10-04 12:00 G	36741882.68	36741883.00	36741883.34	0.0088	0.0023
Uranus	95913-10-09 21:36 G	36752845.23	36752845.40	36752845.61	0.0141	0.0114
Pluto	95936-09-21 11:16 G	36761227.71	36761227.97	36761228.28	0.0082	0.0048
Uranus	95954-04-26 15:36 G	36767654.03	36767654.15	36767654.31	0.0137	0.0119
Neptune	95965-08-25 08:09 G	36771792.70	36771792.84	36771793.04	0.0090	0.0073
Jupiter	95966-06-11 12:43 G	36772082.75	36772083.03	36772083.33	0.0519	0.0100
Neptune	95967-07-20 03:07 G	36772486.38	36772486.63	36772486.93	0.0090	0.0032
Saturn	95971-05-05 02:09 G	36773871.38	36773871.59	36773871.82	0.0281	0.0159
Jupiter	95984-05-29 18:57 G	36778645.04	36778645.29	36778645.54	0.0507	0.0120
Uranus	95996-06-30 12:57 G	36783059.78	36783060.04	36783060.29	0.0141	0.0085

97TH MILLENNIUM CE

This is a list of transits of Mars in the 97th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	96037-01-18 21:50 G	36797872.13	36797872.41	36797872.70	0.0137	0.0035		
Neptune	96047-05-19 00:43 G	36801644.34	36801644.53	36801644.80	0.0088	0.0065		
Neptune	96049-04-14 02:24 G	36802340.34	36802340.60	36802340.89	0.0088	0.0052		
Saturn	96059-09-28 20:52 G	36806160.21	36806160.37	36806160.53	0.0281	0.0227		
Uranus	96081-02-24 08:09 G	36813979.53	36813979.84	36813980.15	0.0141	0.0040		
Pluto	96091-11-18 20:52 G	36817899.23	36817899.37	36817899.53	0.0062	0.0053		

Saturn	96101-12-18 20:24 G	36821581.19	36821581.35	36821581.54	0.0284	0.0238
Uranus	96121-09-14 11:02 G	36828790.70	36828790.96	36828791.21	0.0137	0.0067
Neptune	96131-03-05 12:57 G	36832249.76	36832250.04	36832250.34	0.0090	0.0007
Jupiter	96138-08-24 20:52 G	36834979.15	36834979.37	36834979.58	0.0507	0.0284
Saturn	96148-02-22 23:45 G	36838448.40	36838448.49	36838448.61	0.0281	0.0257
Saturn	96190-05-13 14:09 G	36853868.86	36853869.09	36853869.32	0.0284	0.0197
Uranus	96204-06-09 14:24 G	36859008.89	36859009.10	36859009.34	0.0137	0.0088
Neptune	96212-11-27 13:40 G	36862101.74	36862102.07	36862102.42	0.0088	0.0009
Saturn	96236-07-18 14:38 G	36870736.02	36870736.11	36870736.21	0.0280	0.0261
Uranus	96248-07-14 11:45 G	36875114.68	36875114.99	36875115.32	0.0141	0.0021
Jupiter	96257-02-15 05:45 G	36878252.66	36878252.74	36878252.83	0.0506	0.0478
Saturn	96278-10-06 14:24 G	36886155.88	36886156.10	36886156.34	0.0285	0.0198
Uranus	96289-02-02 11:02 G	36889927.68	36889927.96	36889928.26	0.0137	0.0021
Neptune	96294-10-19 20:24 G	36892013.10	36892013.35	36892013.60	0.0089	0.0047
Neptune	96296-09-12 14:38 G	36892706.91	36892707.11	36892707.36	0.0090	0.0057
Saturn	96324-12-12 02:24 G	36903023.51	36903023.60	36903023.72	0.0280	0.0256
Uranus	96333-03-11 10:04 G	36906034.73	36906034.92	36906035.14	0.0141	0.0109
Saturn	96367-03-01 05:31 G	36918442.53	36918442.73	36918442.95	0.0285	0.0212
Uranus	96371-10-29 17:45 G	36920146.16	36920146.24	36920146.33	0.0138	0.0131
Uranus	96373-09-29 07:12 G	36920846.74	36920846.80	36920846.90	0.0137	0.0131
Neptune	96376-07-12 02:52 G	36921863.32	36921863.62	36921863.95	0.0088	0.0033
Neptune	96378-06-08 01:26 G	36922559.46	36922559.56	36922559.70	0.0088	0.0082
Jupiter	96393-05-23 01:26 G	36928022.28	36928022.56	36928022.84	0.0518	0.0158
Jupiter	96411-05-13 22:19 G	36934587.17	36934587.43	36934587.68	0.0508	0.0013
Saturn	96413-05-06 20:52 G	36935311.35	36935311.37	36935311.44	0.0279	0.0275
Uranus	96415-12-01 15:36 G	36936249.91	36936250.15	36936250.43	0.0141	0.0081
Saturn	96455-07-24 06:57 G	36950729.57	36950729.79	36950730.01	0.0286	0.0204
Uranus	96456-06-23 16:19 G	36951064.90	36951065.18	36951065.48	0.0137	0.0019
Neptune	96458-06-04 23:16 G	36951776.43	36951776.47	36951776.55	0.0089	0.0088
Neptune	96460-04-28 20:52 G	36952470.10	36952470.37	36952470.67	0.0090	0.0017

Uranus	96500-07-28 06:14 G	36967169.47	36967169.76	36967170.08	0.0141	0.0044
Neptune	96540-02-24 14:38 G	36981624.97	36981625.11	36981625.32	0.0088	0.0075
Uranus	96541-02-17 12:14 G	36981983.82	36981984.01	36981984.25	0.0137	0.0092
Neptune	96542-01-20 12:43 G	36982320.75	36982321.03	36982321.35	0.0088	0.0039
Saturn	96543-12-18 02:52 G	36983017.37	36983017.62	36983017.90	0.0286	0.0159
Jupiter	96565-08-08 04:48 G	36990921.57	36990921.70	36990921.82	0.0507	0.0439
Pluto	96582-10-16 10:19 G	36997199.82	36997199.93	36997200.13	0.0062	0.0053
Uranus	96623-11-13 12:14 G	37012201.76	37012202.01	37012202.28	0.0138	0.0067
Neptune	96623-12-14 23:45 G	37012233.22	37012233.49	37012233.79	0.0089	0.0025
Neptune	96625-11-07 19:55 G	37012927.22	37012927.33	37012927.50	0.0090	0.0079
Saturn	96632-05-14 02:52 G	37015306.31	37015306.62	37015306.94	0.0286	0.0048
Saturn	96648-06-05 23:45 G	37021173.33	37021173.49	37021173.68	0.0276	0.0210
Jupiter	96666-02-04 22:33 G	37027626.38	37027626.44	37027626.52	0.0519	0.0502
Uranus	96667-12-15 08:38 G	37028304.55	37028304.86	37028305.18	0.0140	0.0020
Jupiter	96684-01-29 07:40 G	37034193.77	37034193.82	37034193.89	0.0506	0.0491
Neptune	96705-09-05 00:00 G	37042082.16	37042082.50	37042082.84	0.0088	0.0004
Uranus	96708-07-09 06:57 G	37043120.52	37043120.79	37043121.09	0.0138	0.0042
Saturn	96720-10-10 02:38 G	37047596.32	37047596.61	37047596.91	0.0286	0.0104
Saturn	96736-11-01 20:09 G	37053463.09	37053463.34	37053463.61	0.0277	0.0081
Uranus	96752-08-11 09:07 G	37059224.71	37059224.88	37059225.09	0.0141	0.0112
Neptune	96787-07-31 01:26 G	37071996.39	37071996.56	37071996.78	0.0089	0.0067
Neptune	96789-06-23 22:04 G	37072690.18	37072690.42	37072690.71	0.0089	0.0038
Uranus	96791-04-03 06:00 G	37073338.61	37073338.75	37073338.92	0.0138	0.0117
Jupiter	96820-04-30 23:45 G	37083959.22	37083959.49	37083959.76	0.0519	0.0158
Saturn	96825-03-29 18:28 G	37085753.00	37085753.27	37085753.54	0.0277	0.0055
Pluto	96829-03-10 18:43 G	37087195.00	37087195.28	37087195.57	0.0062	0.0005
Uranus	96835-05-04 00:43 G	37089440.28	37089440.53	37089440.82	0.0140	0.0074
Jupiter	96838-04-24 07:12 G	37090526.57	37090526.80	37090527.04	0.0507	0.0231
Neptune	96869-04-18 11:31 G	37101843.71	37101843.98	37101844.27	0.0088	0.0047
Neptune	96871-03-15 06:43 G	37102539.59	37102539.78	37102540.03	0.0088	0.0067

Uranus	96875-11-27 07:55 G	37104257.53	37104257.83	37104258.12	0.0138	0.0003
Saturn	96913-08-25 03:07 G	37118042.41	37118042.63	37118042.85	0.0277	0.0157
Uranus	96919-12-29 23:31 G	37120360.21	37120360.48	37120360.79	0.0140	0.0058
Neptune	96953-02-07 01:26 G	37132453.27	37132453.56	37132453.85	0.0089	0.0004
Uranus	96960-07-23 08:38 G	37135176.71	37135176.86	37135177.05	0.0138	0.0113
Jupiter	96974-07-25 21:36 G	37140292.13	37140292.40	37140292.68	0.0519	0.0172
Jupiter	96992-07-18 18:57 G	37146860.04	37146860.29	37146860.55	0.0506	0.0101

98TH MILLENNIUM CE

This is a list of transits of Mars in the 98th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	97002-01-19 22:19 G		37150331.28	37150331.43	37150331.59	0.0277	0.0226	
Uranus	97002-09-21 15:36 G		37150576.05	37150576.15	37150576.31	0.0140	0.0128	
Neptune	97034-10-28 18:14 G		37162300.93	37162301.26	37162301.59	0.0088	0.0022	
Uranus	97043-04-18 10:04 G		37165394.64	37165394.92	37165395.20	0.0138	0.0044	
Pluto	97075-08-03 20:24 G		37177190.13	37177190.35	37177190.63	0.0062	0.0031	
Uranus	97087-05-18 06:57 G		37181495.47	37181495.79	37181496.11	0.0140	0.0005	
Saturn	97090-06-15 00:43 G		37182619.44	37182619.53	37182619.63	0.0277	0.0258	
Neptune	97116-09-24 00:14 G		37192216.28	37192216.51	37192216.79	0.0089	0.0045	
Neptune	97118-08-18 23:16 G		37192910.27	37192910.47	37192910.72	0.0089	0.0058	
Uranus	97127-12-13 07:55 G		37196313.58	37196313.83	37196314.10	0.0138	0.0068	
Saturn	97132-08-27 03:07 G		37198032.59	37198032.63	37198032.69	0.0288	0.0284	
Pluto	97166-10-24 15:21 G		37210508.80	37210509.14	37210509.50	0.0082	0.0012	

Uranus	97172-01-12 20:52 G	37212415.23	37212415.37	37212415.57	0.0140	0.0120
Saturn	97178-11-08 18:00 G	37214907.20	37214907.25	37214907.33	0.0277	0.0268
Neptune	97198-06-12 05:45 G	37222062.43	37222062.74	37222063.09	0.0088	0.0021
Uranus	97210-09-05 20:38 G	37226531.16	37226531.36	37226531.58	0.0139	0.0099
Saturn	97221-01-19 00:28 G	37230319.51	37230319.52	37230319.54	0.0289	0.0288
Jupiter	97247-04-11 10:04 G	37239897.68	37239897.92	37239898.16	0.0519	0.0274
Uranus	97254-10-04 20:38 G	37242631.09	37242631.36	37242631.66	0.0140	0.0064
Jupiter	97265-04-06 08:24 G	37246467.62	37246467.85	37246468.09	0.0507	0.0222
Neptune	97280-05-09 01:11 G	37251979.50	37251979.55	37251979.67	0.0089	0.0086
Neptune	97282-04-03 01:11 G	37252673.26	37252673.55	37252673.84	0.0089	0.0018
Uranus	97295-05-01 18:43 G	37257449.99	37257450.28	37257450.58	0.0138	0.0012
Pluto	97321-12-26 20:52 G	37267185.27	37267185.37	37267185.53	0.0062	0.0056
Uranus	97339-06-01 15:21 G	37273550.88	37273551.14	37273551.44	0.0140	0.0064
Neptune	97362-01-24 19:40 G	37281824.09	37281824.32	37281824.55	0.0088	0.0063
Neptune	97363-12-21 11:45 G	37282519.72	37282519.99	37282520.28	0.0088	0.0048
Uranus	97379-12-26 16:48 G	37288369.07	37288369.20	37288369.34	0.0138	0.0123
Jupiter	97401-07-08 13:40 G	37296232.86	37296233.07	37296233.29	0.0519	0.0339
Pluto	97413-03-17 20:38 G	37300503.07	37300503.36	37300503.71	0.0082	0.0036
Jupiter	97419-07-04 01:11 G	37302802.33	37302802.55	37302802.78	0.0507	0.0273
Uranus	97422-02-22 21:07 G	37303767.22	37303767.38	37303767.58	0.0139	0.0114
Neptune	97445-11-18 03:35 G	37312436.36	37312436.65	37312436.94	0.0089	0.0022
Neptune	97447-10-13 01:40 G	37313130.47	37313130.57	37313130.72	0.0089	0.0081
Uranus	97462-09-20 11:45 G	37318586.70	37318586.99	37318587.28	0.0139	0.0038
Saturn	97486-04-01 14:38 G	37327180.95	37327181.11	37327181.28	0.0290	0.0244
Saturn	97502-05-03 02:38 G	37333055.57	37333055.61	37333055.65	0.0272	0.0268
Uranus	97506-10-20 14:24 G	37334686.79	37334687.10	37334687.42	0.0140	0.0013
Neptune	97527-08-06 02:38 G	37342281.28	37342281.61	37342281.95	0.0088	0.0006
Uranus	97547-05-17 13:11 G	37349505.83	37349506.05	37349506.32	0.0138	0.0079
Saturn	97574-08-27 15:21 G	37359469.87	37359470.14	37359470.41	0.0290	0.0142
Saturn	97590-09-27 11:02 G	37365344.75	37365344.96	37365345.19	0.0273	0.0166

Uranus	97591-06-16 05:02 G	37365606.68	37365606.71	37365606.78	0.0140	0.0138
Neptune	97609-07-04 03:07 G	37372199.45	37372199.63	37372199.88	0.0089	0.0062
Neptune	97611-05-29 05:31 G	37372893.48	37372893.73	37372894.00	0.0089	0.0042
Uranus	97630-02-08 03:50 G	37379723.44	37379723.66	37379723.91	0.0139	0.0087
Pluto	97659-08-08 17:31 G	37390497.00	37390497.23	37390497.51	0.0082	0.0057
Saturn	97663-01-22 19:55 G	37391760.03	37391760.33	37391760.65	0.0289	0.0031
Uranus	97674-03-08 06:00 G	37395822.47	37395822.75	37395823.06	0.0139	0.0046
Jupiter	97674-03-22 07:40 G	37395836.63	37395836.82	37395837.03	0.0520	0.0365
Saturn	97679-02-22 08:52 G	37397634.60	37397634.87	37397635.15	0.0273	0.0032
Neptune	97691-03-19 18:43 G	37402042.99	37402043.28	37402043.60	0.0088	0.0035
Jupiter	97692-03-18 10:04 G	37402407.73	37402407.92	37402408.12	0.0506	0.0339
Neptune	97693-02-12 10:04 G	37402738.77	37402738.92	37402739.11	0.0088	0.0075
Uranus	97714-10-05 00:43 G	37410642.24	37410642.53	37410642.83	0.0139	0.0025
Saturn	97751-06-21 10:33 G	37424050.74	37424050.94	37424051.17	0.0289	0.0213
Uranus	97758-11-02 17:45 G	37426741.98	37426742.24	37426742.50	0.0139	0.0076
Saturn	97767-07-21 02:52 G	37429924.36	37429924.62	37429924.88	0.0274	0.0091
Neptune	97775-01-12 08:24 G	37432656.56	37432656.85	37432657.15	0.0089	0.0004
Uranus	97799-05-30 20:38 G	37441561.31	37441561.36	37441561.44	0.0139	0.0135
Jupiter	97828-06-15 21:50 G	37452169.13	37452169.41	37452169.69	0.0520	0.0094
Uranus	97841-07-27 02:52 G	37456958.44	37456958.62	37456958.86	0.0139	0.0103
Jupiter	97846-06-13 11:45 G	37458740.73	37458740.99	37458741.26	0.0505	0.0058
Neptune	97854-11-02 13:55 G	37461804.94	37461805.08	37461805.28	0.0088	0.0075
Saturn	97855-12-16 14:24 G	37462213.91	37462214.10	37462214.29	0.0274	0.0197
Neptune	97856-09-28 03:07 G	37462500.34	37462500.63	37462500.95	0.0088	0.0035
Uranus	97882-02-21 23:45 G	37471778.21	37471778.49	37471778.79	0.0139	0.0039
Pluto	97905-12-31 01:40 G	37480490.28	37480490.57	37480490.91	0.0082	0.0037
Uranus	97926-03-23 15:35 G	37487877.84	37487878.15	37487878.46	0.0139	0.0021
Neptune	97938-08-29 11:31 G	37492419.71	37492419.98	37492420.27	0.0089	0.0033
Neptune	97940-07-23 12:14 G	37493113.86	37493114.01	37493114.23	0.0089	0.0070
Saturn	97944-05-12 07:26 G	37494502.76	37494502.81	37494502.89	0.0274	0.0265

Uranus	97966-10-19 01:11 G	37502697.32	37502697.55	37502697.82	0.0139	0.0077
Jupiter	97982-09-10 19:55 G	37508503.14	37508503.33	37508503.54	0.0519	0.0361
Jupiter	98000-09-07 12:14 G	37515074.82	37515075.01	37515075.21	0.0506	0.0346

99TH MILLENNIUM CE

This is a list of transits of Mars in the 99th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	98020-05-13 00:00 G		37522262.17	37522262.50	37522262.83	0.0088	0.0005	
Uranus	98049-07-12 04:48 G		37532914.51	37532914.70	37532914.95	0.0139	0.0097	
Pluto	98061-03-05 16:33 G		37537169.11	37537169.19	37537169.36	0.0062	0.0057	
Uranus	98093-08-09 14:24 G		37549013.81	37549014.10	37549014.41	0.0139	0.0033	
Neptune	98102-04-14 13:55 G		37552182.93	37552183.08	37552183.30	0.0089	0.0070	
Neptune	98104-03-08 18:43 G		37552877.00	37552877.28	37552877.56	0.0089	0.0033	
Jupiter	98119-03-01 04:04 G		37558347.59	37558347.67	37558347.77	0.0506	0.0475	
Uranus	98134-03-08 11:31 G		37563833.69	37563833.98	37563834.28	0.0139	0.0024	
Pluto	98152-05-21 23:31 G		37570483.14	37570483.48	37570483.83	0.0082	0.0012	
Uranus	98178-04-05 21:21 G		37579933.16	37579933.39	37579933.65	0.0139	0.0086	
Neptune	98183-12-26 22:48 G		37582024.19	37582024.45	37582024.76	0.0088	0.0044	
Neptune	98185-11-21 10:04 G		37582719.72	37582719.92	37582720.16	0.0088	0.0065	
Uranus	98218-11-02 09:07 G		37594752.87	37594752.88	37594752.94	0.0139	0.0138	
Jupiter	98255-05-29 01:40 G		37608109.29	37608109.57	37608109.85	0.0520	0.0030	
Uranus	98260-12-28 06:00 G		37610149.55	37610149.75	37610150.00	0.0139	0.0096	
Neptune	98267-10-23 21:21 G		37612640.10	37612640.39	37612640.70	0.0089	0.0004	

Jupiter	98273-05-27 03:07 G	37614682.37	37614682.63	37614682.90	0.0506	0.0057
Uranus	98301-07-27 07:11 G	37624969.52	37624969.80	37624970.11	0.0139	0.0040
Pluto	98307-07-30 01:55 G	37627163.37	37627163.58	37627163.84	0.0062	0.0036
Uranus	98345-08-24 10:19 G	37641068.63	37641068.93	37641069.24	0.0139	0.0021
Neptune	98347-08-12 01:40 G	37641786.44	37641786.57	37641786.70	0.0088	0.0081
Neptune	98349-07-07 11:02 G	37642481.65	37642481.96	37642482.28	0.0088	0.0027
Uranus	98386-03-22 01:26 G	37655888.31	37655888.56	37655888.84	0.0139	0.0069
Jupiter	98427-08-22 07:26 G	37671016.73	37671016.81	37671016.89	0.0506	0.0482
Neptune	98431-06-09 00:28 G	37672403.27	37672403.52	37672403.82	0.0089	0.0038
Neptune	98433-05-03 05:02 G	37673097.53	37673097.71	37673097.94	0.0089	0.0064
Saturn	98444-08-22 15:50 G	37677226.98	37677227.16	37677227.36	0.0269	0.0197
Uranus	98468-12-12 16:48 G	37686105.04	37686105.20	37686105.39	0.0140	0.0114
Uranus	98513-01-11 06:57 G	37702204.50	37702204.79	37702205.10	0.0139	0.0039
Neptune	98513-02-19 13:11 G	37702243.74	37702244.05	37702244.39	0.0088	0.0010
Saturn	98516-12-10 06:28 G	37703633.61	37703633.77	37703633.93	0.0293	0.0248
Saturn	98533-01-18 04:04 G	37709516.42	37709516.67	37709516.95	0.0269	0.0084
Jupiter	98546-02-10 22:33 G	37714288.34	37714288.44	37714288.55	0.0505	0.0460
Uranus	98553-08-08 18:43 G	37717023.97	37717024.28	37717024.58	0.0139	0.0003
Pluto	98553-12-20 02:24 G	37717157.31	37717157.60	37717157.89	0.0062	0.0002
Neptune	98595-01-23 02:52 G	37732166.49	37732166.62	37732166.83	0.0089	0.0074
Neptune	98596-12-17 10:19 G	37732860.66	37732860.93	37732861.23	0.0089	0.0030
Uranus	98597-09-06 12:00 G	37733123.77	37733124.00	37733124.27	0.0139	0.0082
Saturn	98605-05-08 06:43 G	37735923.50	37735923.78	37735924.08	0.0293	0.0094
Saturn	98621-06-15 20:24 G	37741806.08	37741806.35	37741806.63	0.0270	0.0035
Uranus	98638-04-04 22:19 G	37747943.29	37747943.43	37747943.58	0.0139	0.0121
Neptune	98676-10-04 19:40 G	37762006.06	37762006.32	37762006.62	0.0088	0.0045
Neptune	98678-08-31 02:38 G	37762701.39	37762701.61	37762701.86	0.0088	0.0062
Uranus	98680-05-31 03:07 G	37763340.43	37763340.63	37763340.87	0.0139	0.0098
Jupiter	98682-05-07 23:45 G	37764047.26	37764047.49	37764047.73	0.0521	0.0281
Saturn	98693-10-03 23:31 G	37768214.20	37768214.48	37768214.78	0.0292	0.0107

Jupiter	98700-05-07 20:09 G	37770621.09	37770621.34	37770621.59	0.0504	0.0195
Saturn	98709-11-11 15:35 G	37774095.94	37774096.15	37774096.38	0.0270	0.0159
Uranus	98720-12-27 17:45 G	37778159.97	37778160.24	37778160.53	0.0139	0.0057
Neptune	98760-08-03 12:43 G	37792623.74	37792624.03	37792624.34	0.0089	0.0005
Uranus	98765-01-25 03:21 G	37794259.34	37794259.64	37794259.95	0.0139	0.0017
Saturn	98782-03-02 09:21 G	37800504.83	37800504.89	37800504.98	0.0292	0.0282
Saturn	98798-04-07 22:33 G	37806385.37	37806385.44	37806385.53	0.0270	0.0258
Pluto	98800-05-13 00:00 G	37807151.34	37807151.50	37807151.72	0.0062	0.0046
Uranus	98805-08-22 19:26 G	37809079.05	37809079.31	37809079.60	0.0139	0.0061
Jupiter	98836-08-01 06:57 G	37820380.52	37820380.79	37820381.07	0.0521	0.0079
Neptune	98840-05-20 03:07 G	37821768.51	37821768.63	37821768.79	0.0088	0.0080
Neptune	98842-04-15 08:52 G	37822463.57	37822463.87	37822464.20	0.0088	0.0027
Uranus	98849-09-20 02:38 G	37825178.55	37825178.61	37825178.72	0.0139	0.0133
Jupiter	98854-08-01 07:55 G	37826954.57	37826954.83	37826955.09	0.0505	0.0147
Uranus	98888-05-15 03:07 G	37839295.53	37839295.63	37839295.76	0.0140	0.0129
Neptune	98924-03-19 15:07 G	37852386.88	37852387.13	37852387.43	0.0089	0.0040
Neptune	98926-02-11 22:48 G	37853081.26	37853081.45	37853081.69	0.0089	0.0064
Uranus	98932-06-13 18:43 G	37855395.00	37855395.28	37855395.57	0.0138	0.0050
Uranus	98973-01-09 02:23 G	37870214.29	37870214.60	37870214.91	0.0139	0.0014

100TH MILLENNIUM CE

This is a list of transits of Mars in the 100th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								

Neptune	99005-11-29 16:47 G	37882225.88	37882226.20	37882226.52	0.0088	0.0009
Uranus	99017-02-07 18:57 G	37886314.04	37886314.29	37886314.58	0.0139	0.0068
Uranus	99057-09-05 01:55 G	37901133.40	37901133.58	37901133.82	0.0139	0.0102
Neptune	99087-11-03 15:35 G	37912150.02	37912150.15	37912150.36	0.0089	0.0075
Neptune	99089-09-28 02:09 G	37912844.31	37912844.59	37912844.88	0.0089	0.0029
Uranus	99099-11-01 17:16 G	37916531.06	37916531.22	37916531.42	0.0138	0.0111
Jupiter	99109-04-19 03:07 G	37919986.45	37919986.63	37919986.82	0.0521	0.0386
Saturn	99121-09-30 08:52 G	37924533.79	37924533.87	37924533.97	0.0267	0.0252
Jupiter	99127-04-20 06:14 G	37926561.51	37926561.76	37926562.01	0.0505	0.0206
Pluto	99139-11-07 03:35 G	37931145.37	37931145.65	37931145.96	0.0082	0.0046
Uranus	99140-05-29 13:11 G	37931349.83	37931350.05	37931350.32	0.0140	0.0084
Neptune	99169-07-15 03:07 G	37941988.38	37941988.63	37941988.94	0.0088	0.0043
Neptune	99171-06-10 05:59 G	37942683.56	37942683.75	37942684.02	0.0088	0.0063
Uranus	99184-06-27 17:02 G	37947449.91	37947450.21	37947450.52	0.0139	0.0006
Saturn	99210-02-23 06:57 G	37956821.63	37956821.79	37956821.95	0.0266	0.0216
Uranus	99225-01-22 22:19 G	37962269.14	37962269.43	37962269.73	0.0139	0.0041
Neptune	99253-05-14 04:04 G	37972607.37	37972607.67	37972607.98	0.0089	0.0005
Jupiter	99263-07-15 16:04 G	37976321.93	37976322.17	37976322.41	0.0521	0.0261
Uranus	99269-02-20 15:07 G	37978369.01	37978369.13	37978369.30	0.0139	0.0122
Jupiter	99281-07-14 19:40 G	37982896.10	37982896.32	37982896.55	0.0505	0.0276
Pluto	99295-01-15 06:14 G	37987828.51	37987828.76	37987829.05	0.0062	0.0021
Saturn	99298-07-19 10:33 G	37989109.74	37989109.94	37989110.16	0.0266	0.0175
Neptune	99333-02-27 14:09 G	38001750.95	38001751.09	38001751.26	0.0088	0.0077
Neptune	99335-01-23 16:19 G	38002445.90	38002446.18	38002446.51	0.0088	0.0029
Uranus	99351-11-15 11:16 G	38008585.71	38008585.97	38008586.26	0.0139	0.0061
Saturn	99386-12-14 09:07 G	38021398.62	38021398.88	38021399.15	0.0266	0.0091
Uranus	99392-06-11 14:23 G	38023404.79	38023405.10	38023405.40	0.0140	0.0025
Neptune	99416-12-29 03:21 G	38032370.38	38032370.64	38032370.94	0.0089	0.0038
Neptune	99418-11-23 14:38 G	38033064.93	38033065.11	38033065.35	0.0089	0.0064
Uranus	99436-07-11 06:14 G	38039504.48	38039504.76	38039505.05	0.0139	0.0050

Saturn	99475-05-11 17:16 G	38053687.94	38053688.22	38053688.50	0.0267	0.0010
Uranus	99477-02-05 15:07 G	38054323.92	38054324.13	38054324.39	0.0139	0.0091
Neptune	99498-09-08 03:50 G	38062208.34	38062208.66	38062208.98	0.0088	0.0006
Uranus	99519-04-05 07:40 G	38069721.74	38069721.82	38069721.95	0.0138	0.0129
Jupiter	99536-03-30 21:21 G	38075926.24	38075926.39	38075926.54	0.0522	0.0432
Saturn	99547-08-22 05:31 G	38080087.54	38080087.73	38080087.95	0.0296	0.0214
Jupiter	99554-03-31 16:33 G	38082500.99	38082501.19	38082501.40	0.0503	0.0330
Uranus	99559-10-30 15:35 G	38084539.97	38084540.15	38084540.39	0.0140	0.0104
Saturn	99563-10-07 12:43 G	38085977.80	38085978.03	38085978.29	0.0267	0.0136
Neptune	99580-08-14 02:23 G	38092133.43	38092133.60	38092133.79	0.0089	0.0073
Neptune	99582-07-09 15:07 G	38092827.85	38092828.13	38092828.43	0.0089	0.0031
Uranus	99603-11-29 04:04 G	38100640.37	38100640.67	38100640.97	0.0138	0.0016
Saturn	99636-01-17 19:11 G	38112378.00	38112378.30	38112378.60	0.0296	0.0029
Uranus	99644-06-24 22:47 G	38115459.14	38115459.45	38115459.76	0.0140	0.0018
Saturn	99652-03-03 03:21 G	38118267.56	38118267.64	38118267.74	0.0267	0.0253
Neptune	99662-04-23 16:33 G	38121970.93	38121971.19	38121971.49	0.0088	0.0041
Neptune	99664-03-18 15:50 G	38122665.95	38122666.16	38122666.40	0.0088	0.0064
Uranus	99688-07-24 02:23 G	38131559.42	38131559.60	38131559.83	0.0139	0.0102
Jupiter	99690-06-23 23:02 G	38132259.20	38132259.46	38132259.73	0.0522	0.0117
Jupiter	99708-06-24 21:07 G	38138834.11	38138834.38	38138834.65	0.0504	0.0022
Saturn	99724-06-15 01:26 G	38144668.30	38144668.56	38144668.82	0.0296	0.0148
Neptune	99746-02-22 14:38 G	38152590.81	38152591.11	38152591.42	0.0089	0.0004
Uranus	99771-04-18 05:16 G	38161776.49	38161776.72	38161776.99	0.0138	0.0079
Pluto	99789-09-18 17:45 G	38168505.01	38168505.24	38168505.51	0.0062	0.0030
Saturn	99798-11-06 17:31 G	38171841.19	38171841.23	38171841.30	0.0266	0.0260
Uranus	99811-11-13 16:33 G	38176594.91	38176595.19	38176595.51	0.0140	0.0045
Saturn	99812-11-10 13:40 G	38176958.00	38176958.07	38176958.18	0.0296	0.0283
Neptune	99825-12-08 07:26 G	38181733.65	38181733.81	38181734.00	0.0088	0.0073
Neptune	99827-11-03 05:02 G	38182428.42	38182428.71	38182429.02	0.0088	0.0030
Jupiter	99844-09-18 13:40 G	38188592.84	38188593.07	38188593.31	0.0522	0.0262

Uranus	99855-12-13 01:55 G	38192695.30	38192695.58	38192695.89	0.0139	0.0037
Jupiter	99862-09-19 16:33 G	38195168.01	38195168.19	38195168.39	0.0504	0.0365
Saturn	99887-04-03 03:07 G	38204129.45	38204129.63	38204129.82	0.0265	0.0199
Uranus	99896-07-09 04:47 G	38207514.45	38207514.70	38207514.96	0.0139	0.0083
Neptune	99909-10-09 09:21 G	38212353.61	38212353.89	38212354.17	0.0089	0.0039
Neptune	99911-09-03 23:59 G	38213048.31	38213048.50	38213048.74	0.0089	0.0065
Saturn	99975-08-28 03:21 G	38236417.43	38236417.64	38236417.88	0.0265	0.0164
Uranus	99979-04-02 05:02 G	38237730.55	38237730.71	38237730.92	0.0140	0.0113
Jupiter	99981-03-11 17:31 G	38238440.18	38238440.23	38238440.30	0.0503	0.0488
Neptune	99991-06-18 17:59 G	38242190.94	38242191.25	38242191.57	0.0088	0.0004

101ST MILLENNIUM CE

This is a list of transits of Mars in the 101st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	100023-05-02 00:28 G		38253831.23	38253831.52	38253831.81	0.0138	0.0033	
Uranus	100063-11-26 12:14 G		38268649.70	38268650.01	38268650.33	0.0140	0.0011	
Saturn	100064-01-21 01:26 G		38268705.31	38268705.56	38268705.81	0.0264	0.0126	
Neptune	100073-05-24 02:38 G		38272116.46	38272116.61	38272116.81	0.0089	0.0075	
Neptune	100075-04-18 19:40 G		38272811.04	38272811.32	38272811.62	0.0089	0.0030	
Uranus	100107-12-26 18:28 G		38284750.04	38284750.27	38284750.52	0.0138	0.0082	
Jupiter	100117-06-06 15:21 G		38288199.87	38288200.14	38288200.41	0.0522	0.0069	
Pluto	100129-03-09 13:11 G		38292493.75	38292494.05	38292494.38	0.0082	0.0036	
Jupiter	100135-06-07 10:19 G		38294774.66	38294774.93	38294775.21	0.0504	0.0016	

Uranus	100148-07-22 19:55 G	38299569.26	38299569.33	38299569.43	0.0139	0.0134
Saturn	100152-06-15 23:02 G	38300993.20	38300993.46	38300993.73	0.0264	0.0096
Neptune	100155-02-01 07:40 G	38301953.55	38301953.82	38301954.11	0.0088	0.0039
Neptune	100156-12-27 02:38 G	38302648.43	38302648.61	38302648.87	0.0088	0.0064
Uranus	100190-09-19 06:28 G	38314967.56	38314967.77	38314968.00	0.0138	0.0094
Uranus	100231-04-15 18:43 G	38329785.01	38329785.28	38329785.58	0.0140	0.0062
Neptune	100238-12-03 11:59 G	38332573.69	38332574.00	38332574.32	0.0089	0.0007
Saturn	100240-11-10 08:52 G	38333281.59	38333281.87	38333282.16	0.0264	0.0037
Jupiter	100271-09-02 04:04 G	38344534.53	38344534.67	38344534.83	0.0522	0.0436
Uranus	100275-05-16 01:11 G	38345886.25	38345886.55	38345886.85	0.0138	0.0021
Pluto	100284-05-22 11:59 G	38349180.71	38349181.00	38349181.29	0.0062	0.0003
Jupiter	100289-09-01 12:43 G	38351108.91	38351109.03	38351109.18	0.0504	0.0442
Uranus	100315-12-11 12:14 G	38360704.75	38360705.01	38360705.30	0.0140	0.0072
Neptune	100318-09-17 22:19 G	38361716.28	38361716.43	38361716.64	0.0088	0.0073
Neptune	100320-08-12 16:19 G	38362410.90	38362411.18	38362411.50	0.0088	0.0029
Saturn	100329-04-07 02:09 G	38365570.31	38365570.59	38365570.87	0.0264	0.0033
Uranus	100398-09-02 13:11 G	38390920.92	38390921.05	38390921.22	0.0140	0.0123
Neptune	100402-07-18 23:31 G	38392336.23	38392336.48	38392336.77	0.0089	0.0044
Neptune	100404-06-12 18:43 G	38393031.07	38393031.28	38393031.54	0.0089	0.0060
Jupiter	100408-02-21 17:16 G	38394380.20	38394380.22	38394380.25	0.0502	0.0500
Saturn	100417-09-01 11:59 G	38397859.76	38397860.00	38397860.25	0.0265	0.0139
Uranus	100442-10-03 09:07 G	38407022.60	38407022.88	38407023.17	0.0138	0.0041
Uranus	100483-04-29 09:07 G	38421840.56	38421840.88	38421841.20	0.0140	0.0012
Neptune	100484-03-27 04:47 G	38422173.39	38422173.70	38422174.01	0.0088	0.0007
Saturn	100506-01-28 00:14 G	38430149.44	38430149.51	38430149.61	0.0265	0.0252
Uranus	100527-05-30 03:21 G	38437941.41	38437941.64	38437941.92	0.0138	0.0074
Jupiter	100544-05-17 10:33 G	38444138.72	38444138.94	38444139.17	0.0523	0.0273
Jupiter	100562-05-17 21:50 G	38450713.15	38450713.41	38450713.67	0.0503	0.0185
Neptune	100566-03-03 10:33 G	38452098.83	38452098.94	38452099.09	0.0089	0.0081
Neptune	100568-01-27 06:43 G	38452793.49	38452793.78	38452794.09	0.0089	0.0023

Saturn	100578-05-03 01:11 G	38456542.32	38456542.55	38456542.81	0.0299	0.0172
Uranus	100610-02-21 18:28 G	38468159.10	38468159.27	38468159.48	0.0138	0.0105
Neptune	100647-11-11 18:57 G	38481936.03	38481936.29	38481936.58	0.0088	0.0042
Neptune	100649-10-06 10:19 G	38482630.73	38482630.93	38482631.19	0.0088	0.0059
Uranus	100650-09-16 13:55 G	38482975.80	38482976.08	38482976.37	0.0140	0.0062
Saturn	100652-10-03 04:33 G	38483723.55	38483723.69	38483723.87	0.0264	0.0218
Saturn	100666-09-29 09:06 G	38488832.58	38488832.88	38488833.18	0.0298	0.0008
Uranus	100694-10-17 15:06 G	38499077.84	38499078.13	38499078.43	0.0138	0.0011
Jupiter	100698-08-11 12:57 G	38500471.77	38500472.04	38500472.31	0.0523	0.0027
Jupiter	100716-08-12 04:33 G	38507046.42	38507046.69	38507046.96	0.0502	0.0142
Neptune	100731-09-12 15:50 G	38512555.86	38512556.16	38512556.48	0.0089	0.0016
Neptune	100733-08-07 10:47 G	38513250.92	38513250.95	38513251.04	0.0089	0.0088
Uranus	100735-05-14 05:02 G	38513895.45	38513895.71	38513896.01	0.0140	0.0069
Saturn	100741-02-28 03:06 G	38516012.39	38516012.63	38516012.90	0.0263	0.0127
Saturn	100755-02-24 13:26 G	38521121.79	38521122.06	38521122.34	0.0299	0.0126
Uranus	100779-06-13 11:02 G	38529996.86	38529996.96	38529997.06	0.0138	0.0130
Neptune	100811-06-27 09:35 G	38541698.77	38541698.90	38541699.07	0.0088	0.0077
Neptune	100813-05-21 23:16 G	38542393.18	38542393.47	38542393.78	0.0088	0.0023
Uranus	100818-02-02 20:23 G	38544111.28	38544111.35	38544111.49	0.0141	0.0134
Saturn	100829-07-24 15:35 G	38548300.87	38548301.15	38548301.43	0.0263	0.0065
Saturn	100843-07-20 22:47 G	38553410.24	38553410.45	38553410.68	0.0299	0.0204
Jupiter	100852-11-05 23:30 G	38556806.44	38556806.48	38556806.55	0.0523	0.0511
Uranus	100862-03-07 09:21 G	38560214.62	38560214.89	38560215.18	0.0138	0.0043
Pluto	100872-02-17 06:57 G	38563848.45	38563848.79	38563849.15	0.0082	0.0014
Neptune	100895-04-26 21:35 G	38572318.18	38572318.40	38572318.67	0.0089	0.0055
Neptune	100897-03-21 20:38 G	38573013.12	38573013.36	38573013.64	0.0089	0.0049
Uranus	100902-09-30 23:16 G	38575031.15	38575031.47	38575031.79	0.0140	0.0008
Saturn	100917-12-18 16:47 G	38580588.91	38580589.20	38580589.49	0.0262	0.0019
Saturn	100931-12-14 00:42 G	38585697.32	38585697.53	38585697.77	0.0300	0.0199
Uranus	100946-11-01 05:45 G	38591133.50	38591133.74	38591134.00	0.0138	0.0075

Jupiter 100971-04-29 02:52 G 38600078.45 38600078.62 38600078.80 0.0524 0.0394

Neptune 100977-01-04 12:42 G 38602155.73 38602156.03 38602156.35 0.0088 0.0013

Neptune 100978-11-30 02:38 G 38602850.57 38602850.61 38602850.69 0.0088 0.0087

Jupiter 100989-04-28 02:09 G 38606652.37 38606652.59 38606652.83 0.0503 0.0287

102ND MILLENNIUM CE

This is a list of transits of Mars in the 102nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	101006-05-14 12:14	G	38612876.72	38612877.01	38612877.30	0.0262	0.0007	
Saturn	101020-05-08 01:40	G	38617984.35	38617984.57	38617984.79	0.0299	0.0200	
Pluto	101027-05-06 00:28	G	38620538.27	38620538.52	38620538.77	0.0061	0.0029	
Uranus	101029-07-27 06:14	G	38621351.58	38621351.76	38621351.99	0.0137	0.0098	
Neptune	101060-11-05 01:26	G	38632775.25	38632775.56	38632775.88	0.0089	0.0010	
Uranus	101070-02-17 17:59	G	38636166.97	38636167.25	38636167.56	0.0141	0.0053	
Saturn	101094-10-07 12:57	G	38645164.75	38645165.04	38645165.32	0.0262	0.0049	
Saturn	101108-09-30 18:14	G	38650271.03	38650271.26	38650271.52	0.0300	0.0171	
Uranus	101114-03-22 23:59	G	38652270.22	38652270.50	38652270.80	0.0137	0.0017	
Jupiter	101125-07-25 23:16	G	38656413.21	38656413.47	38656413.73	0.0523	0.0141	
Neptune	101140-08-21 01:40	G	38661918.34	38661918.57	38661918.85	0.0088	0.0050	
Neptune	101142-07-16 14:23	G	38662612.87	38662613.10	38662613.38	0.0088	0.0051	
Jupiter	101143-07-25 12:57	G	38662986.79	38662987.04	38662987.31	0.0502	0.0191	
Uranus	101154-10-15 12:28	G	38667086.77	38667087.02	38667087.30	0.0141	0.0082	
Saturn	101183-03-03 17:45	G	38677452.98	38677453.24	38677453.52	0.0262	0.0097	

Saturn	101197-02-23 13:11 G	38682558.85	38682559.05	38682559.27	0.0300	0.0212
Uranus	101198-11-15 20:09 G	38683189.32	38683189.34	38683189.42	0.0138	0.0136
Neptune	101224-06-20 05:30 G	38692537.45	38692537.73	38692538.04	0.0089	0.0030
Neptune	101226-05-16 05:02 G	38693232.57	38693232.71	38693232.92	0.0089	0.0074
Uranus	101237-07-06 17:30 G	38697302.13	38697302.23	38697302.36	0.0141	0.0131
Saturn	101271-07-28 16:18 G	38709741.99	38709742.18	38709742.41	0.0262	0.0180
Pluto	101275-08-15 06:42 G	38711220.50	38711220.78	38711221.07	0.0061	0.0008
Uranus	101281-08-09 23:59 G	38713407.23	38713407.50	38713407.80	0.0137	0.0037
Saturn	101285-07-19 21:06 G	38714847.28	38714847.38	38714847.51	0.0300	0.0274
Neptune	101304-04-05 16:47 G	38721681.14	38721681.20	38721681.28	0.0088	0.0086
Neptune	101306-03-01 02:52 G	38722375.32	38722375.62	38722375.93	0.0088	0.0013
Uranus	101322-03-03 14:38 G	38728221.79	38728222.11	38728222.44	0.0141	0.0006
Uranus	101366-04-05 20:09 G	38744326.13	38744326.34	38744326.60	0.0137	0.0084
Neptune	101388-02-03 07:40 G	38752299.65	38752299.82	38752300.04	0.0089	0.0070
Neptune	101389-12-29 10:33 G	38752994.67	38752994.94	38752995.25	0.0089	0.0035
Jupiter	101398-04-10 13:11 G	38756018.89	38756019.05	38756019.21	0.0525	0.0416
Jupiter	101416-04-09 08:52 G	38762591.67	38762591.87	38762592.08	0.0501	0.0351
Uranus	101448-12-30 04:33 G	38774544.48	38774544.69	38774544.93	0.0137	0.0086
Neptune	101469-10-14 17:45 G	38782137.96	38782138.24	38782138.56	0.0088	0.0025
Neptune	101471-09-09 04:33 G	38782832.54	38782832.69	38782832.86	0.0088	0.0075
Uranus	101489-07-21 00:57 G	38789357.27	38789357.54	38789357.86	0.0141	0.0062
Saturn	101506-08-29 21:50 G	38795605.22	38795605.41	38795605.61	0.0262	0.0193
Pluto	101523-11-26 08:09 G	38801902.61	38801902.84	38801903.10	0.0062	0.0031
Uranus	101533-08-25 23:16 G	38805463.20	38805463.47	38805463.77	0.0137	0.0032
Jupiter	101552-07-05 11:45 G	38812351.74	38812351.99	38812352.25	0.0525	0.0151
Neptune	101553-08-14 13:40 G	38812756.75	38812757.07	38812757.39	0.0089	0.0004
Jupiter	101570-07-04 08:38 G	38818924.58	38818924.86	38818925.14	0.0501	0.0055
Uranus	101574-03-18 08:09 G	38820277.58	38820277.84	38820278.10	0.0141	0.0085
Saturn	101595-01-24 05:59 G	38827894.47	38827894.75	38827895.03	0.0262	0.0083
Saturn	101609-01-12 22:47 G	38832997.22	38832997.45	38832997.70	0.0301	0.0164

Neptune	101633-05-30 08:23 G	38841900.64	38841900.85	38841901.08	0.0088	0.0061
Neptune	101635-04-24 17:45 G	38842594.98	38842595.24	38842595.54	0.0088	0.0038
Uranus	101656-12-07 07:26 G	38850492.72	38850492.81	38850492.93	0.0141	0.0134
Saturn	101683-06-20 09:35 G	38860183.61	38860183.90	38860184.19	0.0262	0.0012
Saturn	101697-06-09 10:04 G	38865286.63	38865286.92	38865287.22	0.0301	0.0025
Uranus	101701-01-14 00:28 G	38866600.24	38866600.52	38866600.81	0.0137	0.0026
Jupiter	101706-09-30 07:40 G	38868685.58	38868685.82	38868686.05	0.0524	0.0235
Neptune	101717-03-29 17:16 G	38872518.95	38872519.22	38872519.52	0.0089	0.0042
Neptune	101719-02-22 20:23 G	38873214.15	38873214.35	38873214.60	0.0089	0.0062
Jupiter	101724-09-27 23:02 G	38875258.24	38875258.46	38875258.68	0.0502	0.0310
Uranus	101741-08-04 05:59 G	38881412.43	38881412.75	38881413.08	0.0141	0.0006
Saturn	101771-11-14 22:33 G	38892472.17	38892472.44	38892472.72	0.0261	0.0085
Pluto	101772-03-06 06:42 G	38892584.62	38892584.78	38892585.00	0.0062	0.0046
Uranus	101785-09-08 17:02 G	38897519.00	38897519.21	38897519.44	0.0137	0.0089
Saturn	101785-11-03 10:33 G	38897574.65	38897574.94	38897575.23	0.0301	0.0021
Neptune	101798-12-08 10:04 G	38902357.62	38902357.92	38902358.23	0.0088	0.0001
Uranus	101826-03-31 21:35 G	38912332.38	38912332.40	38912332.48	0.0141	0.0139
Saturn	101860-04-10 02:09 G	38924760.35	38924760.59	38924760.85	0.0261	0.0131
Uranus	101868-06-04 04:04 G	38927737.46	38927737.67	38927737.92	0.0137	0.0081
Saturn	101874-03-30 00:14 G	38929862.23	38929862.51	38929862.80	0.0301	0.0052
Neptune	101880-11-11 18:14 G	38932281.16	38932281.26	38932281.43	0.0089	0.0081
Neptune	101882-10-08 01:11 G	38932976.25	38932976.55	38932976.87	0.0089	0.0025
Uranus	101908-12-21 17:59 G	38942546.99	38942547.25	38942547.53	0.0141	0.0082
Saturn	101948-09-04 02:09 G	38957048.38	38957048.59	38957048.81	0.0261	0.0173
Uranus	101953-01-28 20:09 G	38958656.06	38958656.34	38958656.62	0.0137	0.0036
Neptune	101962-07-25 05:02 G	38962120.44	38962120.71	38962121.00	0.0089	0.0035
Saturn	101962-08-22 15:50 G	38962148.87	38962149.16	38962149.45	0.0302	0.0014
Neptune	101964-06-18 11:30 G	38962814.78	38962814.98	38962815.21	0.0088	0.0063
Jupiter	101979-06-18 04:18 G	38968292.44	38968292.68	38968292.93	0.0525	0.0178
Uranus	101993-08-17 18:14 G	38973466.99	38973467.26	38973467.58	0.0141	0.0062

Jupiter 101997-06-14 15:06 G 38974863.85 38974864.13 38974864.41 0.0501 0.0115

103RD MILLENNIUM CE

This is a list of transits of Mars in the 103rd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	102020-06-16 01:54	G	38983266.45	38983266.58	38983266.78	0.0062	0.0051	
Uranus	102035-10-24 09:06	G	38988874.84	38988874.88	38988874.98	0.0137	0.0133	
Saturn	102037-01-27 22:47	G	38989336.27	38989336.45	38989336.63	0.0261	0.0204	
Neptune	102046-05-23 04:47	G	38992738.39	38992738.70	38992739.03	0.0089	0.0013	
Saturn	102051-01-14 23:02	G	38994436.17	38994436.46	38994436.75	0.0301	0.0023	
Uranus	102120-06-18 23:30	G	39019793.20	39019793.48	39019793.77	0.0137	0.0019	
Saturn	102125-06-24 08:23	G	39021624.85	39021624.85	39021624.86	0.0261	0.0261	
Neptune	102126-03-10 00:57	G	39021883.36	39021883.54	39021883.73	0.0089	0.0069	
Neptune	102128-02-02 07:11	G	39022577.52	39022577.80	39022578.10	0.0088	0.0028	
Jupiter	102133-09-13 06:28	G	39024627.60	39024627.77	39024627.95	0.0525	0.0393	
Saturn	102139-06-10 08:38	G	39026723.57	39026723.86	39026724.15	0.0301	0.0028	
Jupiter	102151-09-10 11:30	G	39031198.82	39031198.98	39031199.14	0.0501	0.0415	
Uranus	102161-01-03 21:50	G	39034602.09	39034602.41	39034602.74	0.0141	0.0013	
Uranus	102205-02-12 13:11	G	39050711.84	39050712.05	39050712.26	0.0137	0.0095	
Neptune	102210-01-06 06:28	G	39052500.52	39052500.77	39052501.05	0.0089	0.0050	
Neptune	102211-12-02 15:06	G	39053195.88	39053196.13	39053196.38	0.0089	0.0055	
Saturn	102227-11-05 04:47	G	39059012.45	39059012.70	39059012.97	0.0301	0.0128	
Uranus	102245-08-31 22:04	G	39065522.32	39065522.42	39065522.57	0.0141	0.0130	

Pluto	102268-09-25 17:30 G	39073948.07	39073948.23	39073948.43	0.0062	0.0048
Uranus	102287-11-08 00:57 G	39080930.33	39080930.54	39080930.80	0.0136	0.0079
Neptune	102291-09-18 04:33 G	39082340.39	39082340.69	39082340.99	0.0089	0.0006
Saturn	102316-04-01 17:30 G	39091302.10	39091302.23	39091302.38	0.0301	0.0261
Uranus	102328-05-23 05:45 G	39095736.54	39095736.74	39095736.98	0.0142	0.0104
Saturn	102360-07-24 07:26 G	39107486.58	39107486.81	39107487.05	0.0261	0.0162
Uranus	102372-07-03 12:42 G	39111848.76	39111849.03	39111849.32	0.0137	0.0035
Neptune	102373-08-21 07:40 G	39112262.81	39112262.82	39112262.92	0.0089	0.0088
Neptune	102375-07-17 18:42 G	39112957.97	39112958.28	39112958.61	0.0089	0.0019
Jupiter	102406-05-30 01:11 G	39124232.35	39124232.55	39124232.76	0.0526	0.0314
Uranus	102413-01-17 03:35 G	39126656.34	39126656.65	39126656.98	0.0141	0.0038
Jupiter	102424-05-24 23:45 G	39130802.25	39130802.49	39130802.75	0.0499	0.0250
Saturn	102448-12-18 18:57 G	39139776.00	39139776.29	39139776.59	0.0261	0.0043
Uranus	102455-03-29 03:06 G	39142067.62	39142067.63	39142067.68	0.0136	0.0136
Neptune	102455-05-04 04:33 G	39142103.44	39142103.69	39142103.97	0.0089	0.0041
Neptune	102457-03-28 07:25 G	39142797.61	39142797.81	39142798.07	0.0088	0.0057
Pluto	102517-01-05 05:59 G	39164629.56	39164629.75	39164630.00	0.0062	0.0041
Saturn	102537-05-16 09:49 G	39172065.64	39172065.91	39172066.20	0.0261	0.0077
Neptune	102539-03-01 22:04 G	39172720.11	39172720.42	39172720.75	0.0089	0.0018
Uranus	102539-11-22 13:40 G	39172985.79	39172986.07	39172986.36	0.0137	0.0023
Neptune	102541-01-25 08:09 G	39173415.82	39173415.84	39173415.88	0.0089	0.0088
Jupiter	102560-08-23 10:33 G	39180565.67	39180565.94	39180566.20	0.0526	0.0010
Jupiter	102578-08-19 03:35 G	39187135.37	39187135.65	39187135.94	0.0500	0.0068
Uranus	102580-06-04 13:54 G	39187790.78	39187791.08	39187791.40	0.0142	0.0049
Neptune	102618-12-19 07:25 G	39201866.66	39201866.81	39201866.99	0.0089	0.0073
Neptune	102620-11-12 10:18 G	39202560.65	39202560.93	39202561.24	0.0089	0.0023
Uranus	102624-07-18 00:42 G	39203904.32	39203904.53	39203904.74	0.0137	0.0091
Saturn	102625-10-11 08:37 G	39204354.65	39204354.86	39204355.10	0.0261	0.0172
Saturn	102639-09-25 13:25 G	39209451.85	39209452.06	39209452.26	0.0302	0.0211
Uranus	102665-01-30 18:42 G	39218711.06	39218711.28	39218711.53	0.0141	0.0100

Neptune	102702-10-15 22:47 G	39232482.22	39232482.45	39232482.74	0.0089	0.0054
Neptune	102704-09-10 11:45 G	39233177.73	39233177.99	39233178.26	0.0089	0.0052
Uranus	102707-04-13 13:11 G	39234122.83	39234123.05	39234123.28	0.0137	0.0084
Saturn	102714-03-07 22:33 G	39236643.35	39236643.44	39236643.56	0.0261	0.0242
Jupiter	102714-11-19 04:47 G	39236899.53	39236899.70	39236899.89	0.0526	0.0374
Saturn	102728-02-19 23:59 G	39241740.24	39241740.50	39241740.76	0.0302	0.0131
Jupiter	102732-11-13 19:40 G	39243469.20	39243469.32	39243469.45	0.0500	0.0446
Uranus	102747-10-23 04:47 G	39248925.62	39248925.70	39248925.83	0.0142	0.0134
Pluto	102765-04-16 16:18 G	39255310.95	39255311.18	39255311.47	0.0061	0.0027
Neptune	102784-06-28 12:42 G	39262323.73	39262324.03	39262324.33	0.0089	0.0010
Neptune	102786-05-23 15:49 G	39263018.12	39263018.16	39263018.24	0.0088	0.0087
Uranus	102791-12-06 21:49 G	39265041.14	39265041.41	39265041.70	0.0137	0.0026
Saturn	102816-07-14 02:23 G	39274027.36	39274027.60	39274027.86	0.0302	0.0145
Uranus	102832-06-18 04:47 G	39279845.37	39279845.70	39279846.03	0.0141	0.0010
Jupiter	102833-05-10 18:28 G	39280172.20	39280172.27	39280172.35	0.0527	0.0504
Jupiter	102851-05-04 20:37 G	39286740.23	39286740.36	39286740.48	0.0499	0.0448
Neptune	102868-04-24 15:35 G	39292939.84	39292940.15	39292940.48	0.0089	0.0018
Uranus	102876-07-31 05:01 G	39295959.71	39295959.71	39295959.77	0.0137	0.0136
Saturn	102904-12-07 11:01 G	39306314.72	39306314.96	39306315.23	0.0302	0.0133
Neptune	102948-02-12 18:42 G	39322087.04	39322087.28	39322087.56	0.0089	0.0042
Neptune	102950-01-06 18:57 G	39322781.08	39322781.29	39322781.56	0.0089	0.0055
Uranus	102959-04-26 18:57 G	39326178.03	39326178.29	39326178.57	0.0136	0.0041
Jupiter	102987-08-07 01:54 G	39336507.33	39336507.58	39336507.84	0.0527	0.0087
Saturn	102993-05-01 08:23 G	39338601.62	39338601.85	39338602.10	0.0302	0.0163
Uranus	102999-11-03 22:47 G	39340979.20	39340979.45	39340979.70	0.0142	0.0093

104TH MILLENNIUM CE

This is a list of transits of Mars in the 104th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	103005-07-31 23:45	G	39343075.21	39343075.49	39343075.77	0.0499	0.0118	
Pluto	103013-07-27 03:06	G	39345992.36	39345992.63	39345992.93	0.0061	0.0011	
Neptune	103031-12-09 17:45	G	39352701.92	39352702.24	39352702.57	0.0089	0.0018	
Neptune	103033-11-04 06:57	G	39353397.79	39353397.79	39353397.85	0.0089	0.0089	
Uranus	103043-12-21 01:54	G	39357096.35	39357096.58	39357096.84	0.0137	0.0071	
Saturn	103081-09-25 10:04	G	39370889.67	39370889.92	39370890.19	0.0302	0.0113	
Uranus	103084-06-30 23:01	G	39371899.16	39371899.46	39371899.78	0.0141	0.0052	
Neptune	103111-09-30 02:52	G	39381850.45	39381850.62	39381850.80	0.0089	0.0072	
Neptune	103113-08-24 02:09	G	39382544.32	39382544.59	39382544.90	0.0089	0.0023	
Saturn	103126-01-22 07:25	G	39387078.66	39387078.81	39387079.00	0.0260	0.0213	
Uranus	103126-09-15 17:01	G	39387315.05	39387315.21	39387315.41	0.0136	0.0106	
Jupiter	103141-11-02 07:40	G	39392841.80	39392841.82	39392841.86	0.0527	0.0523	
Saturn	103170-02-19 23:59	G	39403178.22	39403178.50	39403178.79	0.0302	0.0041	
Neptune	103195-07-24 17:45	G	39412464.00	39412464.24	39412464.53	0.0089	0.0054	
Neptune	103197-06-19 10:18	G	39413159.70	39413159.93	39413160.22	0.0089	0.0054	
Uranus	103211-05-10 23:01	G	39418233.18	39418233.46	39418233.75	0.0137	0.0004	
Saturn	103214-06-18 13:11	G	39419367.79	39419368.05	39419368.33	0.0261	0.0117	
Uranus	103251-11-17 10:33	G	39433033.63	39433033.94	39433034.27	0.0141	0.0035	
Saturn	103258-07-17 17:30	G	39435467.97	39435468.23	39435468.50	0.0301	0.0109	
Jupiter	103260-04-22 22:33	G	39436113.36	39436113.44	39436113.53	0.0528	0.0495	
Pluto	103261-11-04 11:01	G	39436673.69	39436673.96	39436674.26	0.0061	0.0011	
Neptune	103277-04-08 09:06	G	39442307.59	39442307.88	39442308.19	0.0089	0.0009	

Jupiter	103278-04-14 23:30 G	39442679.38	39442679.48	39442679.59	0.0498	0.0462
Neptune	103279-03-03 09:06 G	39443001.85	39443001.88	39443001.97	0.0089	0.0087
Uranus	103296-01-03 06:28 G	39449151.62	39449151.77	39449151.93	0.0137	0.0115
Saturn	103302-11-13 18:42 G	39451656.98	39451657.28	39451657.58	0.0260	0.0011
Uranus	103336-07-14 14:52 G	39463953.94	39463954.12	39463954.34	0.0141	0.0113
Saturn	103346-12-14 00:42 G	39467758.50	39467758.53	39467758.60	0.0301	0.0295
Neptune	103361-02-01 12:28 G	39472921.70	39472922.02	39472922.34	0.0089	0.0018
Uranus	103378-09-28 19:40 G	39479370.09	39479370.32	39479370.59	0.0136	0.0067
Saturn	103391-04-10 14:37 G	39483946.84	39483947.11	39483947.38	0.0261	0.0120
Jupiter	103414-07-19 05:45 G	39492446.51	39492446.74	39492446.98	0.0528	0.0200
Uranus	103419-04-05 12:28 G	39494167.92	39494168.02	39494168.14	0.0142	0.0133
Jupiter	103432-07-09 23:45 G	39499012.21	39499012.49	39499012.77	0.0498	0.0160
Neptune	103440-11-23 18:42 G	39502071.04	39502071.28	39502071.57	0.0089	0.0040
Neptune	103442-10-18 17:01 G	39502764.99	39502765.21	39502765.45	0.0089	0.0056
Uranus	103463-05-25 01:25 G	39510288.30	39510288.56	39510288.84	0.0136	0.0044
Saturn	103479-09-05 23:30 G	39516236.37	39516236.48	39516236.61	0.0260	0.0238
Uranus	103503-12-01 12:13 G	39525087.68	39525088.01	39525088.35	0.0141	0.0012
Pluto	103510-02-14 20:09 G	39527355.11	39527355.34	39527355.62	0.0061	0.0031
Neptune	103524-09-17 12:42 G	39532683.71	39532684.03	39532684.37	0.0089	0.0018
Uranus	103546-02-17 18:13 G	39540507.23	39540507.26	39540507.31	0.0136	0.0135
Jupiter	103568-10-12 11:59 G	39548779.75	39548780.00	39548780.26	0.0528	0.0088
Jupiter	103586-10-04 04:04 G	39555345.39	39555345.67	39555345.95	0.0498	0.0160
Pluto	103603-03-02 02:52 G	39561338.54	39561338.62	39561338.74	0.0082	0.0079
Neptune	103604-07-10 05:01 G	39561834.56	39561834.71	39561834.92	0.0089	0.0071
Neptune	103606-06-04 02:23 G	39562528.31	39562528.60	39562528.88	0.0089	0.0024
Uranus	103630-10-12 23:01 G	39571425.19	39571425.46	39571425.75	0.0136	0.0024
Uranus	103671-04-17 08:52 G	39586221.62	39586221.87	39586222.15	0.0142	0.0088
Neptune	103688-05-01 10:33 G	39592445.70	39592445.94	39592446.24	0.0089	0.0054
Neptune	103690-03-28 07:25 G	39593141.57	39593141.81	39593142.09	0.0089	0.0055
Saturn	103714-10-04 09:35 G	39602096.80	39602096.90	39602097.05	0.0259	0.0237

Uranus	103715-06-08 03:35 G	39602343.45	39602343.65	39602343.88	0.0137	0.0087
Uranus	103755-12-13 17:59 G	39617141.98	39617142.25	39617142.57	0.0141	0.0068
Pluto	103758-05-26 02:23 G	39618036.53	39618036.60	39618036.74	0.0061	0.0057
Saturn	103758-10-30 20:23 G	39618194.25	39618194.35	39618194.47	0.0302	0.0278
Neptune	103770-01-18 12:42 G	39622291.74	39622292.03	39622292.33	0.0089	0.0007
Neptune	103771-12-13 09:49 G	39622985.89	39622985.91	39622985.96	0.0089	0.0088
Uranus	103798-03-02 20:37 G	39632562.18	39632562.36	39632562.59	0.0136	0.0094
Saturn	103803-02-28 05:01 G	39634384.53	39634384.71	39634384.91	0.0260	0.0202
Jupiter	103841-07-01 04:47 G	39648387.48	39648387.70	39648387.93	0.0529	0.0251
Pluto	103851-06-09 17:01 G	39652017.88	39652018.21	39652018.57	0.0082	0.0008
Neptune	103853-11-11 04:47 G	39652903.39	39652903.70	39652904.04	0.0089	0.0019
Jupiter	103859-06-20 17:01 G	39654950.95	39654951.21	39654951.48	0.0498	0.0223
Uranus	103882-10-27 01:11 G	39663480.27	39663480.55	39663480.83	0.0137	0.0015
Saturn	103891-07-24 05:59 G	39666672.53	39666672.75	39666673.00	0.0260	0.0161
Uranus	103923-05-02 03:06 G	39678276.31	39678276.63	39678276.97	0.0142	0.0025
Neptune	103933-09-04 22:47 G	39682055.19	39682055.45	39682055.72	0.0089	0.0038
Neptune	103935-07-30 17:59 G	39682749.05	39682749.25	39682749.51	0.0089	0.0057
Saturn	103935-08-19 05:45 G	39682768.72	39682768.74	39682768.80	0.0302	0.0299
Uranus	103967-06-22 05:16 G	39694398.63	39694398.72	39694398.86	0.0137	0.0125
Saturn	103979-12-18 02:09 G	39698960.32	39698960.59	39698960.86	0.0260	0.0124
Jupiter	103995-09-26 19:25 G	39704722.08	39704722.31	39704722.54	0.0529	0.0229

105TH MILLENNIUM CE

This is a list of transits of Mars in the 105th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
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TRANSIT

TIME

Uranus	104007-12-27 06:13 G	39709196.61	39709196.76	39709196.93	0.0141	0.0124
Jupiter	104013-09-15 02:52 G	39711285.37	39711285.62	39711285.88	0.0497	0.0261
Neptune	104017-06-26 02:09 G	39712665.27	39712665.59	39712665.93	0.0089	0.0017
Saturn	104024-01-11 23:16 G	39715056.39	39715056.47	39715056.59	0.0302	0.0281
Uranus	104050-03-16 23:01 G	39724617.22	39724617.46	39724617.73	0.0136	0.0058
Saturn	104068-05-12 20:23 G	39731249.05	39731249.35	39731249.65	0.0260	0.0050
Uranus	104090-09-15 20:23 G	39739410.23	39739410.35	39739410.49	0.0142	0.0130
Neptune	104097-04-20 10:18 G	39741818.77	39741818.93	39741819.13	0.0089	0.0069
Neptune	104099-03-15 04:04 G	39742512.40	39742512.67	39742512.97	0.0089	0.0025
Pluto	104099-09-16 13:40 G	39742697.95	39742698.07	39742698.27	0.0082	0.0074
Saturn	104112-06-07 21:49 G	39747345.20	39747345.41	39747345.65	0.0301	0.0182
Uranus	104134-11-10 04:04 G	39755535.42	39755535.67	39755535.94	0.0136	0.0055
Saturn	104156-10-07 13:54 G	39763537.78	39763538.08	39763538.38	0.0260	0.0035
Uranus	104175-05-14 00:57 G	39770330.22	39770330.54	39770330.89	0.0142	0.0022
Neptune	104181-02-07 18:28 G	39772427.03	39772427.27	39772427.56	0.0089	0.0055
Neptune	104183-01-04 18:28 G	39773123.03	39773123.27	39773123.56	0.0089	0.0055
Saturn	104200-11-03 14:23 G	39779634.82	39779635.10	39779635.38	0.0301	0.0035
Uranus	104217-08-05 23:59 G	39785754.41	39785754.50	39785754.62	0.0136	0.0125
Saturn	104245-03-05 05:45 G	39795827.51	39795827.74	39795827.99	0.0261	0.0160
Neptune	104262-10-30 15:49 G	39802275.87	39802276.16	39802276.46	0.0089	0.0007
Neptune	104264-09-23 10:04 G	39802969.88	39802969.92	39802969.98	0.0089	0.0087
Jupiter	104268-06-12 11:59 G	39804327.84	39804328.00	39804328.16	0.0530	0.0401
Jupiter	104286-05-30 10:18 G	39810888.74	39810888.93	39810889.12	0.0496	0.0379
Saturn	104289-03-31 16:18 G	39811924.94	39811925.18	39811925.44	0.0301	0.0136
Uranus	104302-04-01 04:33 G	39816672.42	39816672.69	39816672.98	0.0136	0.0014
Uranus	104342-09-30 08:23 G	39831464.57	39831464.85	39831465.16	0.0142	0.0070
Neptune	104346-08-20 11:01 G	39832884.63	39832884.96	39832885.30	0.0089	0.0017
Uranus	104386-11-24 09:06 G	39847590.71	39847590.88	39847591.10	0.0137	0.0099

Jupiter	104422-09-06 09:49 G	39860660.67	39860660.91	39860661.15	0.0530	0.0170
Neptune	104426-06-16 00:57 G	39862039.30	39862039.54	39862039.82	0.0089	0.0039
Uranus	104427-05-27 23:16 G	39862385.22	39862385.47	39862385.74	0.0142	0.0091
Neptune	104428-05-09 18:57 G	39862733.07	39862733.29	39862733.53	0.0089	0.0055
Jupiter	104440-08-23 05:30 G	39867221.44	39867221.73	39867222.02	0.0496	0.0098
Uranus	104469-08-19 07:11 G	39877809.60	39877809.80	39877810.04	0.0136	0.0083
Saturn	104480-04-02 22:47 G	39881689.35	39881689.45	39881689.59	0.0261	0.0240
Pluto	104505-02-12 23:01 G	39890770.27	39890770.46	39890770.70	0.0062	0.0042
Neptune	104510-04-04 00:42 G	39892646.22	39892646.53	39892646.88	0.0089	0.0023
Neptune	104512-02-29 01:11 G	39893342.54	39893342.55	39893342.65	0.0089	0.0088
Uranus	104554-04-14 10:47 G	39908727.69	39908727.95	39908728.24	0.0136	0.0028
Saturn	104568-08-28 19:40 G	39913978.08	39913978.32	39913978.59	0.0260	0.0148
Jupiter	104576-12-01 17:01 G	39916995.00	39916995.21	39916995.44	0.0530	0.0264
Neptune	104590-01-30 13:11 G	39921802.90	39921803.05	39921803.25	0.0089	0.0071
Neptune	104591-12-25 05:01 G	39922496.44	39922496.71	39922497.00	0.0089	0.0023
Uranus	104594-10-13 01:40 G	39923519.23	39923519.57	39923519.91	0.0142	0.0007
Jupiter	104594-11-18 08:52 G	39923555.67	39923555.87	39923556.09	0.0497	0.0346
Saturn	104657-01-23 01:11 G	39946266.27	39946266.55	39946266.85	0.0260	0.0089
Neptune	104673-11-16 10:33 G	39952407.73	39952407.94	39952408.21	0.0089	0.0063
Neptune	104675-10-13 14:09 G	39953103.83	39953104.09	39953104.39	0.0089	0.0048
Uranus	104721-09-03 16:47 G	39969864.94	39969865.20	39969865.48	0.0136	0.0037
Saturn	104745-06-19 05:59 G	39978554.45	39978554.75	39978555.06	0.0260	0.0038
Pluto	104753-05-25 00:28 G	39981451.24	39981451.52	39981451.82	0.0061	0.0006
Neptune	104755-08-11 15:21 G	39982259.86	39982260.14	39982260.43	0.0089	0.0011
Neptune	104757-07-05 06:42 G	39982953.70	39982953.78	39982953.91	0.0089	0.0083
Uranus	104762-02-28 21:06 G	39984653.18	39984653.38	39984653.61	0.0142	0.0110
Uranus	104806-04-28 23:01 G	40000783.25	40000783.46	40000783.71	0.0136	0.0079
Saturn	104833-11-11 20:37 G	40010842.05	40010842.36	40010842.67	0.0260	0.0011
Neptune	104839-05-28 00:13 G	40012865.18	40012865.51	40012865.86	0.0089	0.0007
Uranus	104846-10-26 13:11 G	40015573.76	40015574.05	40015574.38	0.0142	0.0055

Jupiter	104849-08-20 05:30 G	40016602.49	40016602.73	40016602.98	0.0531	0.0120
Jupiter	104867-08-04 07:54 G	40023160.54	40023160.83	40023161.13	0.0495	0.0075
Uranus	104889-01-22 01:25 G	40031002.39	40031002.56	40031002.76	0.0136	0.0100
Neptune	104919-03-27 23:45 G	40042023.26	40042023.49	40042023.76	0.0089	0.0045
Neptune	104921-02-18 16:18 G	40042716.95	40042717.18	40042717.44	0.0089	0.0049
Saturn	104922-04-08 04:04 G	40043130.37	40043130.67	40043130.98	0.0261	0.0044
Uranus	104973-09-17 08:52 G	40061920.59	40061920.87	40061921.15	0.0136	0.0014

106TH MILLENNIUM CE

This is a list of transits of Mars in the 106th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Pluto	105001-09-03 05:01 G	40072132.46	40072132.71	40072132.99	0.0061	0.0025		
Neptune	105003-01-10 07:11 G	40072626.49	40072626.80	40072627.12	0.0089	0.0034		
Jupiter	105003-11-16 19:25 G	40072937.14	40072937.31	40072937.51	0.0531	0.0355		
Neptune	105004-12-06 10:47 G	40073322.81	40073322.95	40073323.15	0.0089	0.0076		
Saturn	105010-09-02 06:57 G	40075418.51	40075418.79	40075419.09	0.0261	0.0100		
Uranus	105014-03-15 03:35 G	40076708.33	40076708.65	40076708.99	0.0142	0.0035		
Jupiter	105021-10-30 19:40 G	40079495.16	40079495.32	40079495.49	0.0496	0.0410		
Uranus	105058-05-13 14:23 G	40092839.02	40092839.10	40092839.21	0.0136	0.0127		
Neptune	105082-11-11 10:47 G	40101786.84	40101786.95	40101787.10	0.0089	0.0079		
Neptune	105084-10-05 00:28 G	40102480.24	40102480.52	40102480.81	0.0089	0.0014		
Uranus	105098-11-09 18:13 G	40107629.13	40107629.26	40107629.42	0.0142	0.0129		
Saturn	105099-01-27 13:40 G	40107707.88	40107708.07	40107708.26	0.0262	0.0206		

Uranus	105141-02-06 20:23 G	40123058.10	40123058.35	40123058.62	0.0136	0.0051
Saturn	105143-02-21 09:49 G	40123802.68	40123802.91	40123803.15	0.0300	0.0161
Neptune	105166-08-24 12:28 G	40132387.86	40132388.02	40132388.21	0.0088	0.0076
Neptune	105168-07-20 18:57 G	40133083.98	40133084.29	40133084.60	0.0089	0.0035
Uranus	105181-07-31 03:49 G	40137842.59	40137842.66	40137842.78	0.0142	0.0137
Uranus	105225-10-02 02:52 G	40153976.39	40153976.62	40153976.88	0.0136	0.0066
Saturn	105231-07-19 16:18 G	40156092.91	40156093.18	40156093.46	0.0300	0.0031
Neptune	105248-05-21 09:49 G	40162243.63	40162243.91	40162244.19	0.0089	0.0021
Pluto	105249-12-12 07:40 G	40162813.73	40162813.82	40162813.96	0.0061	0.0057
Neptune	105250-04-14 22:47 G	40162937.30	40162937.45	40162937.64	0.0089	0.0072
Uranus	105266-03-27 16:18 G	40168762.85	40168763.18	40168763.52	0.0142	0.0025
Jupiter	105276-07-31 17:45 G	40172542.09	40172542.24	40172542.40	0.0532	0.0423
Jupiter	105294-07-13 01:11 G	40179097.33	40179097.55	40179097.77	0.0494	0.0342
Uranus	105308-06-28 11:30 G	40184195.84	40184195.98	40184196.16	0.0136	0.0110
Saturn	105319-12-15 11:30 G	40188382.76	40188382.98	40188383.20	0.0300	0.0181
Neptune	105332-03-03 23:16 G	40192845.13	40192845.47	40192845.82	0.0088	0.0008
Saturn	105334-02-26 00:42 G	40193569.34	40193569.53	40193569.74	0.0262	0.0202
Pluto	105342-12-22 15:35 G	40196790.81	40196791.15	40196791.50	0.0082	0.0007
Uranus	105393-02-20 18:42 G	40215114.00	40215114.28	40215114.56	0.0136	0.0008
Neptune	105412-01-06 17:59 G	40222007.04	40222007.25	40222007.48	0.0089	0.0056
Neptune	105413-11-30 07:54 G	40222700.59	40222700.83	40222701.11	0.0089	0.0037
Saturn	105422-07-24 08:37 G	40225858.56	40225858.86	40225859.15	0.0261	0.0087
Jupiter	105430-10-27 15:21 G	40228875.89	40228876.14	40228876.39	0.0532	0.0057
Uranus	105433-08-13 21:49 G	40229897.12	40229897.41	40229897.72	0.0143	0.0071
Jupiter	105448-10-07 16:47 G	40235430.90	40235431.20	40235431.50	0.0495	0.0041
Uranus	105477-10-17 04:04 G	40246032.57	40246032.67	40246032.78	0.0136	0.0126
Neptune	105495-10-17 01:40 G	40252606.31	40252606.57	40252606.87	0.0088	0.0051
Neptune	105497-09-12 09:21 G	40253302.66	40253302.89	40253303.16	0.0088	0.0061
Saturn	105510-12-19 02:23 G	40258147.29	40258147.60	40258147.91	0.0261	0.0001
Uranus	105518-04-11 23:01 G	40260818.25	40260818.46	40260818.71	0.0142	0.0104

Uranus	105560-07-13 12:28 G	40276251.77	40276252.02	40276252.28	0.0135	0.0052
Neptune	105577-07-16 14:37 G	40282463.82	40282464.11	40282464.40	0.0089	0.0001
Jupiter	105585-01-21 19:11 G	40285210.11	40285210.30	40285210.49	0.0532	0.0345
Pluto	105591-04-01 17:45 G	40287470.99	40287471.24	40287471.52	0.0082	0.0053
Saturn	105599-05-14 13:54 G	40290435.78	40290436.08	40290436.39	0.0261	0.0068
Jupiter	105603-01-02 14:52 G	40291765.03	40291765.12	40291765.24	0.0494	0.0464
Uranus	105645-03-07 20:23 G	40307170.12	40307170.35	40307170.61	0.0136	0.0066
Neptune	105661-04-26 13:40 G	40313063.74	40313064.07	40313064.42	0.0088	0.0019
Uranus	105685-08-27 05:45 G	40321952.40	40321952.74	40321953.08	0.0143	0.0005
Saturn	105687-10-07 05:45 G	40322723.46	40322723.74	40322724.04	0.0261	0.0102
Jupiter	105703-07-15 20:52 G	40328483.29	40328483.37	40328483.46	0.0533	0.0501
Jupiter	105721-06-23 00:42 G	40335035.41	40335035.53	40335035.69	0.0493	0.0436
Uranus	105727-12-03 07:54 G	40337389.67	40337389.83	40337389.99	0.0135	0.0111
Neptune	105741-03-01 23:01 G	40342227.21	40342227.46	40342227.74	0.0089	0.0036
Neptune	105743-01-24 11:16 G	40342920.78	40342920.97	40342921.22	0.0089	0.0058
Saturn	105776-03-02 09:21 G	40355011.65	40355011.89	40355012.16	0.0262	0.0151
Uranus	105812-07-28 14:23 G	40368307.83	40368308.10	40368308.38	0.0135	0.0008
Neptune	105824-12-09 15:49 G	40372824.85	40372825.16	40372825.51	0.0088	0.0025
Neptune	105826-11-06 00:13 G	40373521.49	40373521.51	40373521.60	0.0088	0.0088
Uranus	105853-01-12 20:37 G	40383086.16	40383086.36	40383086.62	0.0143	0.0106
Jupiter	105857-10-10 18:28 G	40384818.02	40384818.27	40384818.52	0.0533	0.0013
Saturn	105864-07-27 01:40 G	40387299.36	40387299.57	40387299.80	0.0262	0.0186
Jupiter	105875-09-18 22:18 G	40391370.13	40391370.43	40391370.73	0.0494	0.0096
Uranus	105897-03-22 20:52 G	40399226.29	40399226.37	40399226.48	0.0136	0.0127
Neptune	105904-10-17 07:25 G	40401990.66	40401990.81	40401990.99	0.0089	0.0072
Neptune	105906-09-10 19:54 G	40402684.07	40402684.33	40402684.63	0.0089	0.0021
Uranus	105937-09-10 12:13 G	40414006.71	40414007.01	40414007.33	0.0143	0.0063
Uranus	105979-12-18 07:54 G	40429445.57	40429445.83	40429446.09	0.0135	0.0051
Neptune	105988-07-23 17:59 G	40432586.06	40432586.25	40432586.52	0.0088	0.0067
Neptune	105990-06-20 04:47 G	40433282.42	40433282.70	40433283.02	0.0088	0.0046

107TH MILLENNIUM CE

This is a list of transits of Mars in the 107th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	106012-01-05 10:47	G	40441151.77	40441151.95	40441152.15	0.0534	0.0348	
Jupiter	106029-12-13 15:35	G	40447704.10	40447704.15	40447704.19	0.0493	0.0487	
Uranus	106064-08-11 13:54	G	40460363.85	40460364.08	40460364.34	0.0136	0.0067	
Neptune	106070-04-26 04:04	G	40462447.39	40462447.67	40462447.95	0.0089	0.0015	
Neptune	106072-03-19 16:32	G	40463141.08	40463141.19	40463141.35	0.0089	0.0078	
Saturn	106085-06-10 06:13	G	40467971.61	40467971.76	40467971.91	0.0298	0.0245	
Uranus	106105-01-26 17:16	G	40475140.90	40475141.22	40475141.57	0.0143	0.0037	
Uranus	106147-05-08 23:30	G	40490583.35	40490583.48	40490583.65	0.0135	0.0114	
Neptune	106154-02-01 08:23	G	40493043.51	40493043.85	40493044.20	0.0088	0.0004	
Saturn	106173-11-06 02:08	G	40500261.34	40500261.59	40500261.86	0.0299	0.0094	
Saturn	106188-01-18 22:47	G	40505448.26	40505448.45	40505448.66	0.0263	0.0201	
Uranus	106189-09-23 13:25	G	40506061.99	40506062.06	40506062.20	0.0143	0.0136	
Uranus	106232-01-02 05:59	G	40521501.48	40521501.75	40521502.03	0.0135	0.0003	
Neptune	106233-12-11 15:20	G	40522210.92	40522211.14	40522211.38	0.0089	0.0051	
Neptune	106235-11-05 01:54	G	40522904.34	40522904.58	40522904.85	0.0089	0.0042	
Saturn	106262-04-04 07:11	G	40532551.54	40532551.80	40532552.06	0.0298	0.0097	
Saturn	106276-06-15 13:25	G	40537737.76	40537738.06	40537738.37	0.0263	0.0068	
Jupiter	106284-09-20 22:04	G	40540757.24	40540757.42	40540757.60	0.0534	0.0364	
Jupiter	106302-08-27 21:06	G	40547306.12	40547306.38	40547306.65	0.0493	0.0237	

Uranus	106316-08-27 10:18 G	40552419.81	40552419.93	40552420.07	0.0135	0.0119
Neptune	106317-09-16 11:59 G	40552804.71	40552805.00	40552805.34	0.0088	0.0037
Neptune	106319-08-13 22:47 G	40553501.30	40553501.45	40553501.66	0.0088	0.0076
Saturn	106350-08-30 06:56 G	40564840.59	40564840.79	40564841.00	0.0299	0.0195
Uranus	106357-02-09 01:54 G	40567195.25	40567195.58	40567195.93	0.0143	0.0020
Saturn	106364-11-10 22:47 G	40570027.14	40570027.45	40570027.76	0.0263	0.0055
Neptune	106397-07-28 02:37 G	40581974.57	40581974.61	40581974.71	0.0089	0.0087
Uranus	106399-05-23 20:23 G	40582639.11	40582639.35	40582639.61	0.0135	0.0061
Neptune	106399-06-21 13:54 G	40582667.80	40582668.08	40582668.37	0.0089	0.0007
Jupiter	106438-12-16 13:54 G	40597090.84	40597091.08	40597091.33	0.0534	0.0039
Saturn	106453-04-06 22:47 G	40602316.21	40602316.45	40602316.72	0.0263	0.0152
Jupiter	106456-11-20 06:42 G	40603639.49	40603639.78	40603640.08	0.0493	0.0125
Neptune	106481-04-29 15:20 G	40612565.99	40612566.14	40612566.30	0.0088	0.0079
Neptune	106483-03-27 04:18 G	40613262.38	40613262.68	40613263.02	0.0088	0.0035
Uranus	106484-01-15 23:59 G	40613557.25	40613557.50	40613557.76	0.0135	0.0056
Uranus	106524-06-26 13:40 G	40628328.83	40628329.07	40628329.35	0.0143	0.0095
Saturn	106541-08-31 23:30 G	40634604.31	40634604.48	40634604.70	0.0262	0.0207
Neptune	106563-02-05 03:20 G	40642431.37	40642431.64	40642431.91	0.0089	0.0027
Neptune	106564-12-29 14:23 G	40643124.92	40643125.10	40643125.31	0.0089	0.0065
Uranus	106566-10-12 08:52 G	40643776.79	40643776.87	40643776.99	0.0135	0.0127
Jupiter	106593-03-13 10:04 G	40653425.81	40653425.92	40653426.04	0.0534	0.0470
Uranus	106609-02-22 08:37 G	40659249.60	40659249.86	40659250.17	0.0143	0.0079
Saturn	106630-01-26 04:47 G	40666892.67	40666892.70	40666892.75	0.0263	0.0260
Neptune	106646-11-09 08:23 G	40673023.51	40673023.85	40673024.21	0.0088	0.0007
Uranus	106651-06-07 11:59 G	40674694.72	40674695.00	40674695.28	0.0135	0.0012
Jupiter	106711-09-05 12:28 G	40696698.86	40696699.02	40696699.20	0.0535	0.0385
Neptune	106726-09-22 16:47 G	40702195.02	40702195.20	40702195.43	0.0089	0.0062
Neptune	106728-08-16 03:35 G	40702888.39	40702888.65	40702888.92	0.0089	0.0031
Jupiter	106729-08-07 07:11 G	40703244.55	40703244.80	40703245.07	0.0492	0.0259
Uranus	106736-01-31 15:49 G	40705613.00	40705613.16	40705613.35	0.0135	0.0104

Uranus	106776-07-10 06:28 G	40720383.44	40720383.77	40720384.12	0.0143	0.0031
Neptune	106810-06-23 13:40 G	40732784.79	40732785.07	40732785.38	0.0088	0.0048
Neptune	106812-05-20 03:20 G	40733481.42	40733481.64	40733481.88	0.0088	0.0066
Uranus	106818-10-26 23:30 G	40735832.28	40735832.48	40735832.72	0.0135	0.0083
Uranus	106861-03-06 20:23 G	40751304.29	40751304.35	40751304.46	0.0143	0.0138
Jupiter	106865-11-29 14:52 G	40753032.87	40753033.12	40753033.37	0.0535	0.0003
Jupiter	106883-11-01 13:54 G	40759578.81	40759579.08	40759579.37	0.0492	0.0196
Neptune	106892-03-31 19:40 G	40762652.04	40762652.32	40762652.60	0.0089	0.0002
Uranus	106903-06-22 02:08 G	40766750.33	40766750.59	40766750.87	0.0135	0.0034
Neptune	106976-01-02 08:52 G	40793242.56	40793242.87	40793243.23	0.0088	0.0026

108TH MILLENNIUM CE

This is a list of transits of Mars in the 108th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	107020-02-25 11:44 G		40809366.80	40809366.99	40809367.17	0.0535	0.0353	
Uranus	107028-07-23 03:06 G		40812437.29	40812437.63	40812437.97	0.0143	0.0016	
Saturn	107041-12-11 06:28 G		40817326.58	40817326.77	40817326.97	0.0265	0.0211	
Neptune	107055-11-17 12:56 G		40822415.80	40822416.04	40822416.32	0.0089	0.0036	
Neptune	107057-10-10 22:32 G		40823109.25	40823109.44	40823109.69	0.0089	0.0058	
Uranus	107070-11-10 11:16 G		40827887.71	40827887.97	40827888.24	0.0135	0.0037	
Pluto	107080-11-27 08:52 G		40831557.64	40831557.87	40831558.15	0.0082	0.0055	
Saturn	107116-02-26 21:35 G		40844431.17	40844431.40	40844431.64	0.0296	0.0140	
Saturn	107130-05-08 19:40 G		40849616.01	40849616.32	40849616.63	0.0265	0.0079	

Neptune	107139-08-17 15:35 G	40853003.81	40853004.15	40853004.50	0.0088	0.0015
Uranus	107155-07-06 11:30 G	40858805.77	40858805.98	40858806.22	0.0136	0.0078
Jupiter	107156-07-16 01:54 G	40859181.55	40859181.58	40859181.61	0.0491	0.0489
Uranus	107195-12-08 19:54 G	40873571.11	40873571.33	40873571.61	0.0143	0.0098
Saturn	107204-07-23 07:25 G	40876720.54	40876720.81	40876721.08	0.0297	0.0016
Saturn	107218-10-03 13:25 G	40881905.76	40881906.06	40881906.38	0.0265	0.0065
Neptune	107219-07-04 06:42 G	40882179.61	40882179.78	40882179.97	0.0089	0.0069
Neptune	107221-05-27 15:49 G	40882872.91	40882873.16	40882873.45	0.0089	0.0025
Uranus	107238-03-31 17:01 G	40889025.09	40889025.21	40889025.39	0.0135	0.0114
Uranus	107280-08-04 13:25 G	40904491.79	40904492.06	40904492.38	0.0142	0.0076
Jupiter	107292-11-09 17:59 G	40908972.10	40908972.25	40908972.41	0.0536	0.0408
Saturn	107292-12-17 23:01 G	40909010.22	40909010.46	40909010.71	0.0296	0.0133
Neptune	107303-03-31 21:49 G	40912765.16	40912765.41	40912765.71	0.0088	0.0055
Neptune	107305-02-25 12:28 G	40913461.79	40913462.02	40913462.31	0.0088	0.0060
Saturn	107307-03-01 00:42 G	40914195.32	40914195.53	40914195.77	0.0264	0.0189
Jupiter	107310-10-10 01:40 G	40915514.29	40915514.57	40915514.86	0.0491	0.0177
Uranus	107322-11-24 18:42 G	40919943.00	40919943.28	40919943.56	0.0136	0.0001
Pluto	107329-03-09 12:56 G	40922239.70	40922240.04	40922240.38	0.0082	0.0003
Saturn	107381-05-14 01:40 G	40941298.35	40941298.57	40941298.79	0.0297	0.0171
Neptune	107385-01-11 11:30 G	40942636.71	40942636.98	40942637.27	0.0089	0.0008
Neptune	107386-12-05 20:23 G	40943330.28	40943330.35	40943330.44	0.0089	0.0085
Uranus	107407-07-20 18:42 G	40950861.15	40950861.28	40950861.45	0.0136	0.0114
Jupiter	107447-02-06 07:11 G	40965306.55	40965306.80	40965307.04	0.0535	0.0047
Uranus	107447-12-21 23:44 G	40965625.18	40965625.49	40965625.83	0.0143	0.0048
Jupiter	107465-01-04 10:47 G	40971848.72	40971848.95	40971849.21	0.0491	0.0293
Neptune	107468-10-09 20:08 G	40973223.02	40973223.34	40973223.70	0.0088	0.0021
Saturn	107469-10-08 10:04 G	40973586.76	40973586.92	40973587.10	0.0296	0.0228
Uranus	107490-04-15 00:13 G	40981080.30	40981080.51	40981080.75	0.0135	0.0078
Uranus	107532-08-18 09:20 G	40996545.72	40996545.89	40996546.08	0.0142	0.0120
Neptune	107548-08-29 06:56 G	41002400.54	41002400.79	41002401.04	0.0089	0.0041

Neptune 107550-07-23 15:20 G 41003093.92 41003094.14 41003094.38 0.0089 0.0053
 Saturn 107558-03-03 18:56 G 41005874.11 41005874.29 41005874.48 0.0296 0.0215
 Uranus 107574-12-09 00:56 G 41011998.27 41011998.54 41011998.81 0.0135 0.0038
 Pluto 107577-06-20 00:27 G 41012922.46 41012922.52 41012922.63 0.0082 0.0079
 Jupiter 107601-05-03 18:27 G 41021641.19 41021641.27 41021641.37 0.0536 0.0495
 Neptune 107632-05-24 02:23 G 41032984.27 41032984.60 41032984.96 0.0088 0.0020
 Saturn 107646-07-27 17:01 G 41038162.06 41038162.21 41038162.37 0.0296 0.0240
 Uranus 107700-01-02 20:08 G 41057678.99 41057679.34 41057679.68 0.0142 0.0002
 Neptune 107712-04-15 01:11 G 41062164.41 41062164.55 41062164.73 0.0089 0.0072
 Neptune 107714-03-09 10:47 G 41062857.69 41062857.95 41062858.24 0.0089 0.0021
 Jupiter 107719-10-25 16:18 G 41064914.01 41064914.18 41064914.34 0.0537 0.0400
 Pluto 107732-09-24 11:15 G 41069631.75 41069631.97 41069632.23 0.0062 0.0036
 Saturn 107734-12-21 17:15 G 41070450.15 41070450.22 41070450.33 0.0295 0.0277
 Jupiter 107737-09-20 02:51 G 41071453.33 41071453.62 41071453.92 0.0490 0.0128
 Uranus 107742-04-29 04:18 G 41073135.42 41073135.68 41073135.95 0.0136 0.0042
 Neptune 107796-01-06 07:11 G 41092745.58 41092745.80 41092746.10 0.0088 0.0061
 Neptune 107797-12-03 00:42 G 41093442.26 41093442.53 41093442.81 0.0088 0.0055
 Uranus 107826-12-23 03:49 G 41104053.44 41104053.66 41104053.91 0.0136 0.0072
 Uranus 107867-05-21 14:23 G 41118812.92 41118813.10 41118813.31 0.0142 0.0118
 Jupiter 107874-01-19 22:03 G 41121248.17 41121248.42 41121248.66 0.0536 0.0008
 Neptune 107877-10-24 05:30 G 41122621.46 41122621.73 41122622.02 0.0089 0.0012
 Neptune 107879-09-17 14:37 G 41123315.00 41123315.11 41123315.23 0.0089 0.0082
 Jupiter 107891-12-16 06:27 G 41127787.54 41127787.77 41127788.02 0.0490 0.0306
 Saturn 107895-11-02 03:49 G 41129204.50 41129204.66 41129204.85 0.0267 0.0226
 Uranus 107909-09-18 08:23 G 41134272.75 41134272.85 41134272.97 0.0135 0.0124
 Uranus 107952-01-17 04:32 G 41149733.39 41149733.69 41149734.03 0.0142 0.0056
 Neptune 107961-07-18 06:42 G 41153203.45 41153203.78 41153204.14 0.0088 0.0016
 Pluto 107981-01-05 01:25 G 41160314.26 41160314.56 41160314.85 0.0062 0.0005
 Saturn 107984-03-29 06:42 G 41161493.50 41161493.78 41161494.09 0.0267 0.0111
 Uranus 107994-05-13 07:39 G 41165190.54 41165190.82 41165191.10 0.0135 0.0009

109TH MILLENNIUM CE

This is a list of transits of Mars in the 109th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	108028-04-15 00:13	G	41177581.29	41177581.51	41177581.73	0.0537	0.0241	
Neptune	108041-06-10 01:54	G	41182385.34	41182385.58	41182385.83	0.0089	0.0044	
Neptune	108043-05-04 09:06	G	41183078.66	41183078.88	41183079.13	0.0089	0.0049	
Saturn	108058-06-16 20:08	G	41188601.15	41188601.34	41188601.53	0.0294	0.0209	
Saturn	108072-08-24 04:18	G	41193783.36	41193783.68	41193783.99	0.0267	0.0044	
Uranus	108079-01-05 07:25	G	41196108.67	41196108.81	41196109.00	0.0136	0.0109	
Uranus	108119-06-03 10:47	G	41210866.67	41210866.95	41210867.27	0.0143	0.0072	
Neptune	108125-03-01 10:47	G	41212964.63	41212964.95	41212965.31	0.0088	0.0026	
Saturn	108146-11-12 21:20	G	41220891.12	41220891.39	41220891.66	0.0294	0.0035	
Saturn	108161-01-19 23:15	G	41226073.25	41226073.47	41226073.71	0.0267	0.0188	
Uranus	108161-10-01 11:44	G	41226327.79	41226327.99	41226328.22	0.0135	0.0087	
Jupiter	108164-08-27 22:03	G	41227389.31	41227389.42	41227389.56	0.0490	0.0447	
Uranus	108204-01-29 23:59	G	41241787.29	41241787.50	41241787.77	0.0142	0.0104	
Neptune	108205-01-25 20:08	G	41242149.23	41242149.34	41242149.50	0.0089	0.0078	
Neptune	108206-12-20 05:44	G	41242842.47	41242842.74	41242843.03	0.0089	0.0017	
Pluto	108229-04-17 17:59	G	41250997.14	41250997.25	41250997.42	0.0062	0.0054	
Saturn	108235-04-09 14:08	G	41253179.82	41253180.09	41253180.35	0.0294	0.0041	
Uranus	108246-05-27 11:59	G	41257245.73	41257246.00	41257246.28	0.0136	0.0030	
Neptune	108288-10-13 15:06	G	41272725.94	41272726.13	41272726.40	0.0088	0.0067	

Neptune	108290-09-10 08:51 G	41273422.59	41273422.87	41273423.17	0.0088	0.0049
Jupiter	108301-01-01 04:32 G	41277187.52	41277187.69	41277187.86	0.0537	0.0381
Jupiter	108318-11-23 18:42 G	41283722.97	41283723.28	41283723.58	0.0490	0.0042
Pluto	108320-05-30 16:47 G	41284276.93	41284277.20	41284277.50	0.0082	0.0044
Saturn	108323-09-04 11:59 G	41285468.77	41285469.00	41285469.25	0.0294	0.0136
Neptune	108370-08-05 23:15 G	41302606.20	41302606.47	41302606.76	0.0089	0.0017
Uranus	108371-06-16 20:37 G	41302921.02	41302921.36	41302921.71	0.0143	0.0014
Neptune	108372-06-29 08:08 G	41303299.71	41303299.84	41303299.99	0.0089	0.0077
Saturn	108412-01-28 04:18 G	41317756.45	41317756.68	41317756.92	0.0294	0.0143
Uranus	108413-10-15 16:47 G	41318382.96	41318383.20	41318383.47	0.0135	0.0053
Neptune	108454-04-24 12:42 G	41333183.69	41333184.03	41333184.39	0.0088	0.0008
Jupiter	108455-03-28 10:32 G	41333521.69	41333521.94	41333522.18	0.0538	0.0032
Jupiter	108473-02-17 02:51 G	41340057.48	41340057.62	41340057.79	0.0490	0.0420
Uranus	108498-06-09 16:18 G	41349300.95	41349301.18	41349301.44	0.0135	0.0063
Saturn	108500-06-23 04:32 G	41350044.47	41350044.69	41350044.90	0.0294	0.0173
Neptune	108534-03-22 19:11 G	41362370.08	41362370.30	41362370.54	0.0089	0.0051
Neptune	108536-02-14 02:51 G	41363063.38	41363063.62	41363063.87	0.0089	0.0043
Uranus	108538-11-01 13:54 G	41364054.99	41364055.08	41364055.22	0.0143	0.0135
Uranus	108581-03-05 23:15 G	41379520.44	41379520.47	41379520.54	0.0135	0.0133
Saturn	108588-11-15 21:35 G	41382332.21	41382332.40	41382332.62	0.0293	0.0189
Jupiter	108591-08-08 05:59 G	41383327.69	41383327.75	41383327.85	0.0489	0.0472
Jupiter	108609-06-24 05:30 G	41389856.66	41389856.73	41389856.80	0.0537	0.0512
Neptune	108617-12-07 14:08 G	41392944.79	41392945.09	41392945.44	0.0088	0.0035
Neptune	108619-11-04 07:54 G	41393641.72	41393641.83	41393641.99	0.0088	0.0082
Uranus	108623-06-30 02:51 G	41394975.30	41394975.62	41394975.96	0.0143	0.0040
Uranus	108665-10-30 00:42 G	41410438.25	41410438.53	41410438.81	0.0135	0.0014
Saturn	108677-04-12 04:03 G	41414620.51	41414620.67	41414620.83	0.0293	0.0233
Neptune	108697-11-06 12:56 G	41422133.96	41422134.04	41422134.13	0.0089	0.0085
Neptune	108699-09-30 21:35 G	41422827.12	41422827.40	41422827.69	0.0089	0.0009
Pluto	108723-12-20 11:30 G	41431672.70	41431672.98	41431673.28	0.0062	0.0007

Jupiter	108727-12-16 00:27 G	41433129.36	41433129.52	41433129.68	0.0538	0.0400
Jupiter	108745-11-03 21:06 G	41439662.07	41439662.38	41439662.69	0.0489	0.0009
Saturn	108749-09-23 19:54 G	41441082.19	41441082.33	41441082.52	0.0270	0.0233
Uranus	108750-06-25 02:23 G	41441356.46	41441356.60	41441356.80	0.0135	0.0108
Neptune	108781-07-21 15:06 G	41452705.99	41452706.13	41452706.33	0.0088	0.0077
Neptune	108783-06-18 09:20 G	41453402.59	41453402.89	41453403.22	0.0088	0.0039
Uranus	108790-11-14 17:44 G	41456108.98	41456109.24	41456109.54	0.0143	0.0082
Uranus	108833-03-20 08:51 G	41471575.67	41471575.87	41471576.09	0.0135	0.0090
Saturn	108838-02-17 06:56 G	41473370.54	41473370.79	41473371.07	0.0270	0.0151
Neptune	108863-05-17 14:08 G	41482590.84	41482591.09	41482591.38	0.0089	0.0026
Neptune	108865-04-09 22:47 G	41483284.29	41483284.45	41483284.65	0.0089	0.0069
Uranus	108875-07-12 13:39 G	41487029.85	41487030.07	41487030.34	0.0143	0.0101
Jupiter	108882-03-10 10:18 G	41489462.69	41489462.93	41489463.17	0.0538	0.0124
Jupiter	108900-01-28 07:39 G	41495995.62	41495995.82	41495996.03	0.0489	0.0358
Uranus	108917-11-13 13:25 G	41502493.79	41502494.06	41502494.33	0.0135	0.0031
Saturn	108926-07-15 22:03 G	41505660.09	41505660.42	41505660.74	0.0269	0.0007
Neptune	108947-01-30 08:37 G	41513163.51	41513163.86	41513164.22	0.0088	0.0006
Saturn	109000-10-08 04:47 G	41532772.51	41532772.70	41532772.91	0.0291	0.0191

110TH MILLENNIUM CE

This is a list of transits of Mars in the 110th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	109014-12-11 15:49 G	41537949.89	41537950.16	41537950.45	0.0269	0.0138		

Neptune	109027-01-02 07:25 G	41542354.63	41542354.81	41542355.04	0.0089	0.0062
Neptune	109028-11-25 15:20 G	41543047.89	41543048.14	41543048.41	0.0089	0.0034
Jupiter	109036-06-05 00:42 G	41545796.30	41545796.53	41545796.77	0.0538	0.0184
Uranus	109042-11-28 16:03 G	41548163.83	41548164.17	41548164.51	0.0143	0.0015
Uranus	109085-04-04 00:27 G	41563631.27	41563631.52	41563631.79	0.0135	0.0045
Saturn	109089-03-04 07:54 G	41565061.58	41565061.83	41565062.09	0.0291	0.0089
Neptune	109110-09-14 07:54 G	41572924.54	41572924.83	41572925.12	0.0088	0.0050
Neptune	109112-08-11 00:42 G	41573621.33	41573621.53	41573621.79	0.0088	0.0066
Uranus	109169-11-28 03:49 G	41594549.45	41594549.66	41594549.91	0.0135	0.0078
Jupiter	109172-10-11 11:59 G	41595597.78	41595598.00	41595598.23	0.0489	0.0329
Saturn	109177-07-30 18:56 G	41597351.03	41597351.29	41597351.55	0.0291	0.0041
Jupiter	109190-08-30 14:08 G	41602129.99	41602130.09	41602130.20	0.0538	0.0488
Neptune	109192-07-12 07:54 G	41602811.55	41602811.83	41602812.11	0.0089	0.0003
Uranus	109210-04-15 08:51 G	41609297.81	41609297.87	41609297.98	0.0143	0.0138
Pluto	109218-08-23 03:20 G	41612349.35	41612349.64	41612349.94	0.0062	0.0005
Uranus	109252-08-23 14:37 G	41624768.98	41624769.11	41624769.27	0.0135	0.0115
Saturn	109265-12-23 22:32 G	41629639.19	41629639.44	41629639.70	0.0291	0.0078
Neptune	109276-03-23 21:49 G	41633382.09	41633382.41	41633382.77	0.0088	0.0021
Uranus	109294-12-11 02:22 G	41640218.29	41640218.60	41640218.94	0.0143	0.0045
Jupiter	109309-02-20 05:30 G	41645402.59	41645402.73	41645402.88	0.0539	0.0439
Jupiter	109327-01-06 10:32 G	41651931.64	41651931.94	41651932.25	0.0489	0.0081
Uranus	109337-04-18 18:42 G	41655687.01	41655687.28	41655687.56	0.0135	0.0009
Saturn	109354-05-20 07:10 G	41661927.56	41661927.80	41661928.04	0.0291	0.0129
Neptune	109356-02-26 21:06 G	41662575.15	41662575.38	41662575.65	0.0089	0.0041
Neptune	109358-01-20 06:42 G	41663268.57	41663268.78	41663269.02	0.0089	0.0055
Uranus	109421-12-13 00:27 G	41686605.49	41686605.52	41686605.60	0.0135	0.0132
Neptune	109439-11-06 18:56 G	41693142.97	41693143.29	41693143.64	0.0088	0.0024
Saturn	109442-10-14 00:42 G	41694215.30	41694215.53	41694215.76	0.0290	0.0143
Uranus	109462-04-29 05:15 G	41701352.43	41701352.72	41701353.02	0.0143	0.0072
Jupiter	109463-05-18 22:46 G	41701737.21	41701737.45	41701737.70	0.0538	0.0034

Uranus	109504-09-08 10:18 G	41716824.70	41716824.93	41716825.19	0.0135	0.0064
Neptune	109519-10-14 09:49 G	41722338.79	41722338.91	41722339.05	0.0089	0.0079
Neptune	109521-09-06 17:58 G	41723031.98	41723032.25	41723032.54	0.0089	0.0017
Saturn	109531-03-10 02:51 G	41726503.41	41726503.62	41726503.83	0.0290	0.0176
Uranus	109546-12-26 00:42 G	41732273.33	41732273.53	41732273.76	0.0143	0.0113
Uranus	109589-05-03 16:32 G	41747742.95	41747743.19	41747743.44	0.0135	0.0060
Jupiter	109599-09-22 08:37 G	41751536.63	41751536.86	41751537.10	0.0488	0.0306
Neptune	109603-06-20 15:34 G	41752903.96	41752904.15	41752904.39	0.0088	0.0069
Saturn	109603-08-15 10:46 G	41752959.80	41752959.95	41752960.13	0.0272	0.0233
Neptune	109605-05-17 08:08 G	41753600.56	41753600.84	41753601.16	0.0088	0.0046
Jupiter	109617-08-13 06:27 G	41758071.64	41758071.77	41758071.92	0.0539	0.0438
Saturn	109619-08-03 12:42 G	41758791.90	41758792.03	41758792.19	0.0289	0.0243
Uranus	109672-01-28 03:20 G	41777962.63	41777962.64	41777962.70	0.0135	0.0134
Neptune	109685-04-22 06:27 G	41782795.51	41782795.77	41782796.05	0.0089	0.0022
Neptune	109687-03-16 14:08 G	41783488.95	41783489.09	41783489.27	0.0089	0.0073
Saturn	109692-01-08 05:15 G	41785247.48	41785247.72	41785247.96	0.0272	0.0184
Pluto	109713-04-27 13:39 G	41793026.88	41793027.07	41793027.30	0.0062	0.0044
Uranus	109714-05-13 00:42 G	41793407.19	41793407.53	41793407.87	0.0143	0.0008
Jupiter	109736-02-03 14:37 G	41801344.09	41801344.11	41801344.16	0.0539	0.0533
Jupiter	109753-12-17 07:39 G	41807870.52	41807870.82	41807871.13	0.0488	0.0098
Uranus	109756-09-22 10:32 G	41808880.66	41808880.94	41808881.22	0.0135	0.0007
Neptune	109768-12-29 04:32 G	41813361.33	41813361.69	41813362.04	0.0088	0.0001
Saturn	109780-06-04 09:06 G	41817536.56	41817536.88	41817537.20	0.0272	0.0060
Pluto	109804-06-08 07:10 G	41826305.55	41826305.80	41826306.11	0.0082	0.0046
Uranus	109841-05-18 16:18 G	41839799.08	41839799.18	41839799.32	0.0135	0.0121
Neptune	109848-12-07 16:46 G	41842559.02	41842559.20	41842559.43	0.0089	0.0062
Neptune	109850-11-01 02:08 G	41843252.35	41843252.59	41843252.87	0.0089	0.0035
Saturn	109868-10-30 17:44 G	41849825.93	41849826.24	41849826.56	0.0272	0.0067
Uranus	109881-09-27 20:08 G	41854541.21	41854541.34	41854541.49	0.0143	0.0131
Jupiter	109890-04-30 06:56 G	41857677.57	41857677.79	41857678.02	0.0539	0.0209

Jupiter	109908-03-13 17:58 G	41864204.14	41864204.25	41864204.38	0.0488	0.0446
Uranus	109924-02-13 03:49 G	41870018.44	41870018.66	41870018.91	0.0135	0.0073
Neptune	109932-08-13 00:56 G	41873122.27	41873122.54	41873122.87	0.0088	0.0045
Neptune	109934-07-10 17:01 G	41873819.03	41873819.21	41873819.45	0.0088	0.0071
Saturn	109943-01-29 08:37 G	41876943.68	41876943.86	41876944.05	0.0288	0.0205
Saturn	109957-03-28 12:56 G	41882115.87	41882116.04	41882116.23	0.0271	0.0224
Pluto	109959-09-19 06:27 G	41883020.50	41883020.77	41883021.08	0.0062	0.0012
Uranus	109966-05-26 17:58 G	41885461.95	41885462.25	41885462.57	0.0143	0.0059

111TH MILLENNIUM CE

This is a list of transits of Mars in the 111th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	110008-10-07 11:01 G	41900936.72	41900936.96	41900937.23	0.0135	0.0054		
Neptune	110014-06-17 12:42 G	41903015.75	41903016.03	41903016.31	0.0089	0.0005		
Saturn	110031-06-26 04:18 G	41909233.42	41909233.68	41909233.94	0.0288	0.0051		
Jupiter	110044-07-24 14:22 G	41914010.85	41914011.10	41914011.34	0.0539	0.0059		
Neptune	110098-02-20 13:39 G	41933579.75	41933580.07	41933580.43	0.0088	0.0025		
Saturn	110119-11-20 18:27 G	41941522.01	41941522.27	41941522.53	0.0288	0.0016		
Uranus	110133-10-12 00:13 G	41946596.21	41946596.51	41946596.84	0.0143	0.0059		
Uranus	110176-02-27 04:18 G	41962074.40	41962074.68	41962074.96	0.0135	0.0017		
Neptune	110178-01-31 23:30 G	41962779.26	41962779.48	41962779.75	0.0089	0.0045		
Neptune	110179-12-26 08:22 G	41963472.65	41963472.85	41963473.11	0.0089	0.0053		
Jupiter	110180-11-23 23:44 G	41963806.22	41963806.49	41963806.77	0.0488	0.0223		

Jupiter	110198-10-19 12:56 G	41970344.89	41970345.04	41970345.20	0.0539	0.0419
Pluto	110206-02-10 05:15 G	41973014.61	41973014.72	41973014.88	0.0062	0.0055
Saturn	110208-04-16 14:08 G	41973810.85	41973811.09	41973811.35	0.0288	0.0098
Uranus	110218-06-09 16:46 G	41977517.05	41977517.20	41977517.37	0.0143	0.0127
Uranus	110260-10-22 10:18 G	41992992.78	41992992.93	41992993.10	0.0135	0.0111
Neptune	110261-10-05 12:27 G	41993340.69	41993341.02	41993341.38	0.0088	0.0020
Saturn	110296-09-09 11:58 G	42006098.77	42006099.00	42006099.24	0.0288	0.0125
Jupiter	110317-04-12 09:20 G	42013617.77	42013617.89	42013618.01	0.0539	0.0467
Jupiter	110335-02-20 10:46 G	42020140.69	42020140.95	42020141.23	0.0488	0.0237
Neptune	110341-09-18 10:46 G	42022542.87	42022542.95	42022543.07	0.0089	0.0084
Uranus	110343-07-19 20:37 G	42023212.15	42023212.36	42023212.58	0.0135	0.0085
Neptune	110343-08-12 20:51 G	42023236.09	42023236.37	42023236.65	0.0089	0.0013
Saturn	110385-02-03 15:20 G	42038386.92	42038387.14	42038387.36	0.0288	0.0159
Uranus	110385-10-25 11:44 G	42038650.65	42038650.99	42038651.33	0.0143	0.0001
Neptune	110425-05-19 11:44 G	42053101.78	42053101.99	42053102.24	0.0088	0.0065
Neptune	110427-04-16 02:22 G	42053798.35	42053798.60	42053798.92	0.0088	0.0051
Uranus	110428-03-13 01:54 G	42054130.32	42054130.58	42054130.86	0.0135	0.0043
Saturn	110457-07-05 19:54 G	42064837.16	42064837.33	42064837.52	0.0274	0.0230
Jupiter	110471-07-07 19:39 G	42069952.08	42069952.32	42069952.57	0.0540	0.0050
Saturn	110473-06-29 18:27 G	42070675.10	42070675.27	42070675.46	0.0287	0.0207
Neptune	110507-03-29 09:06 G	42082999.61	42082999.88	42083000.16	0.0089	0.0026
Neptune	110509-02-19 19:25 G	42083693.15	42083693.31	42083693.49	0.0089	0.0071
Saturn	110545-11-29 00:27 G	42097124.33	42097124.52	42097124.75	0.0274	0.0212
Uranus	110553-03-12 11:30 G	42099784.83	42099784.98	42099785.17	0.0143	0.0124
Saturn	110561-11-24 03:06 G	42102963.53	42102963.63	42102963.76	0.0287	0.0258
Neptune	110590-11-28 03:49 G	42113559.31	42113559.66	42113560.01	0.0088	0.0006
Uranus	110595-08-02 14:51 G	42115267.85	42115268.12	42115268.40	0.0135	0.0033
Jupiter	110607-11-06 04:46 G	42119745.42	42119745.70	42119745.99	0.0488	0.0175
Jupiter	110625-10-03 03:34 G	42126286.47	42126286.65	42126286.84	0.0539	0.0358
Saturn	110634-04-25 15:20 G	42129412.85	42129413.14	42129413.45	0.0275	0.0113

Uranus	110637-11-08 05:58 G	42130705.44	42130705.75	42130706.06	0.0143	0.0063
Neptune	110670-11-12 21:20 G	42142763.22	42142763.39	42142763.61	0.0089	0.0065
Neptune	110672-10-06 07:39 G	42143456.57	42143456.82	42143457.10	0.0089	0.0033
Uranus	110680-03-27 19:39 G	42146186.14	42146186.32	42146186.55	0.0135	0.0092
Saturn	110722-09-20 08:08 G	42161701.51	42161701.84	42161702.17	0.0275	0.0019
Neptune	110754-07-13 06:13 G	42173320.47	42173320.76	42173321.11	0.0088	0.0038
Neptune	110756-06-08 20:08 G	42174017.22	42174017.34	42174017.54	0.0088	0.0078
Jupiter	110762-01-31 00:56 G	42176079.27	42176079.54	42176079.82	0.0488	0.0209
Uranus	110762-12-23 01:39 G	42176405.42	42176405.57	42176405.73	0.0135	0.0112
Uranus	110805-03-26 07:10 G	42191839.49	42191839.80	42191840.10	0.0143	0.0063
Saturn	110811-02-14 23:01 G	42193991.18	42193991.46	42193991.76	0.0274	0.0132
Neptune	110836-05-22 22:46 G	42203220.17	42203220.45	42203220.74	0.0089	0.0005
Uranus	110847-08-17 06:56 G	42207323.52	42207323.79	42207324.08	0.0135	0.0015
Saturn	110885-05-21 20:22 G	42221116.12	42221116.35	42221116.59	0.0285	0.0129
Uranus	110889-11-20 17:15 G	42222760.07	42222760.22	42222760.44	0.0143	0.0120
Jupiter	110898-06-18 13:39 G	42225891.90	42225892.07	42225892.26	0.0540	0.0367
Neptune	110918-02-24 09:06 G	42233081.80	42233081.88	42233082.05	0.0088	0.0082
Neptune	110920-01-21 23:15 G	42233778.16	42233778.47	42233778.81	0.0088	0.0034
Saturn	110973-10-16 19:10 G	42253405.04	42253405.30	42253405.56	0.0286	0.0040
Neptune	111000-01-07 14:08 G	42262983.86	42262984.09	42262984.36	0.0089	0.0043

112TH MILLENNIUM CE

This is a list of transits of Mars in the 112th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								

TIME

Neptune	111001-12-02 00:42 G	42263677.32	42263677.53	42263677.77	0.0089	0.0055
Uranus	111015-01-06 15:06 G	42268460.89	42268461.13	42268461.39	0.0135	0.0063
Jupiter	111034-10-14 03:20 G	42275681.60	42275681.64	42275681.71	0.0488	0.0480
Jupiter	111052-09-13 05:44 G	42282225.49	42282225.74	42282225.99	0.0539	0.0052
Uranus	111057-04-08 13:39 G	42283893.73	42283894.07	42283894.41	0.0143	0.0011
Saturn	111062-03-14 02:51 G	42285694.36	42285694.62	42285694.88	0.0286	0.0072
Neptune	111083-09-05 04:46 G	42293539.36	42293539.70	42293540.05	0.0088	0.0009
Uranus	111099-08-31 17:58 G	42299379.02	42299379.25	42299379.52	0.0135	0.0063
Saturn	111150-08-08 08:22 G	42317982.61	42317982.85	42317983.09	0.0285	0.0120
Neptune	111163-08-25 04:46 G	42322747.58	42322747.70	42322747.84	0.0089	0.0079
Neptune	111165-07-18 16:18 G	42323440.91	42323441.18	42323441.47	0.0089	0.0019
Jupiter	111189-01-08 05:01 G	42332015.41	42332015.71	42332016.01	0.0488	0.0071
Pluto	111193-08-03 02:08 G	42333683.57	42333683.59	42333683.69	0.0063	0.0062
Jupiter	111206-12-09 12:13 G	42338559.83	42338560.01	42338560.21	0.0540	0.0346
Uranus	111224-08-24 17:30 G	42345028.15	42345028.23	42345028.36	0.0143	0.0136
Saturn	111239-01-01 17:01 G	42350271.02	42350271.21	42350271.44	0.0285	0.0171
Neptune	111247-04-19 10:03 G	42353300.68	42353300.92	42353301.23	0.0088	0.0053
Neptune	111249-03-15 23:15 G	42353997.24	42353997.47	42353997.72	0.0088	0.0063
Uranus	111267-01-19 22:46 G	42360516.18	42360516.45	42360516.74	0.0135	0.0026
Uranus	111309-04-22 05:15 G	42375948.42	42375948.72	42375949.06	0.0143	0.0048
Saturn	111311-05-27 22:18 G	42376714.29	42376714.43	42376714.61	0.0276	0.0241
Saturn	111327-05-28 18:27 G	42382559.11	42382559.27	42382559.46	0.0284	0.0213
Neptune	111329-03-04 08:37 G	42383204.59	42383204.86	42383205.15	0.0089	0.0018
Neptune	111331-01-26 19:39 G	42383898.21	42383898.32	42383898.46	0.0089	0.0080
Jupiter	111343-04-05 22:32 G	42388350.27	42388350.44	42388350.61	0.0488	0.0404
Uranus	111351-09-15 01:54 G	42391434.41	42391434.58	42391434.78	0.0135	0.0101
Saturn	111399-10-19 19:54 G	42409001.18	42409001.33	42409001.52	0.0277	0.0237
Neptune	111412-10-29 06:13 G	42413758.43	42413758.76	42413759.11	0.0088	0.0021
Saturn	111415-10-22 22:18 G	42414847.31	42414847.43	42414847.56	0.0285	0.0250

Uranus	111434-06-11 01:10 G	42421653.39	42421653.55	42421653.72	0.0135	0.0111
Jupiter	111461-09-24 05:30 G	42431620.63	42431620.73	42431620.85	0.0488	0.0453
Uranus	111476-09-07 02:08 G	42437082.34	42437082.59	42437082.89	0.0143	0.0084
Jupiter	111479-08-27 16:46 G	42438166.96	42438167.20	42438167.45	0.0540	0.0125
Saturn	111488-03-15 00:56 G	42441289.28	42441289.54	42441289.82	0.0277	0.0158
Neptune	111492-10-19 00:42 G	42442968.33	42442968.53	42442968.78	0.0089	0.0055
Neptune	111494-09-12 12:13 G	42443661.77	42443662.01	42443662.26	0.0089	0.0044
Uranus	111519-02-04 05:01 G	42452571.43	42452571.71	42452571.99	0.0135	0.0017
Uranus	111561-05-05 09:34 G	42468002.67	42468002.90	42468003.16	0.0143	0.0097
Neptune	111576-06-12 13:54 G	42473519.76	42473520.08	42473520.44	0.0088	0.0022
Saturn	111576-08-09 00:27 G	42473577.22	42473577.52	42473577.84	0.0277	0.0100
Jupiter	111615-12-20 11:44 G	42487954.68	42487954.99	42487955.29	0.0488	0.0029
Jupiter	111633-11-21 12:13 G	42494500.79	42494501.01	42494501.24	0.0540	0.0212
Neptune	111658-04-29 05:01 G	42503425.43	42503425.71	42503426.00	0.0089	0.0009
Saturn	111665-01-03 04:32 G	42505866.37	42505866.69	42505867.02	0.0277	0.0030
Uranus	111686-06-24 03:49 G	42513708.44	42513708.66	42513708.91	0.0135	0.0074
Uranus	111728-09-20 09:34 G	42529136.59	42529136.90	42529137.24	0.0143	0.0035
Saturn	111739-04-18 20:08 G	42532999.15	42532999.34	42532999.55	0.0283	0.0185
Neptune	111740-01-25 23:44 G	42533281.27	42533281.49	42533281.76	0.0088	0.0063
Neptune	111741-12-22 09:49 G	42533977.65	42533977.91	42533978.21	0.0088	0.0052
Saturn	111753-05-31 20:08 G	42538156.11	42538156.34	42538156.62	0.0277	0.0175
Jupiter	111770-03-15 13:54 G	42544287.83	42544288.08	42544288.33	0.0488	0.0274
Uranus	111771-02-17 05:58 G	42544626.49	42544626.75	42544627.02	0.0135	0.0050
Jupiter	111788-02-15 18:27 G	42550834.16	42550834.27	42550834.40	0.0539	0.0471
Neptune	111821-12-14 20:37 G	42563189.09	42563189.36	42563189.63	0.0089	0.0028
Neptune	111823-11-08 08:37 G	42563882.71	42563882.86	42563883.06	0.0089	0.0071
Saturn	111827-09-13 21:06 G	42565288.13	42565288.38	42565288.63	0.0283	0.0088
Neptune	111905-08-06 21:06 G	42593739.04	42593739.38	42593739.73	0.0088	0.0011
Jupiter	111906-08-08 17:44 G	42594106.17	42594106.24	42594106.31	0.0539	0.0513
Saturn	111916-02-09 12:27 G	42597577.76	42597578.02	42597578.28	0.0283	0.0045

Uranus	111938-07-09 03:34 G	42605763.38	42605763.65	42605763.92	0.0135	0.0043
Uranus	111980-10-03 18:56 G	42621190.96	42621191.29	42621191.63	0.0143	0.0016
Neptune	111985-07-31 12:13 G	42622952.85	42622953.01	42622953.24	0.0090	0.0065
Neptune	111987-06-25 00:56 G	42623646.30	42623646.54	42623646.82	0.0089	0.0036

113TH MILLENNIUM CE

This is a list of transits of Mars in the 113th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	112004-07-05 01:25 G		42629866.33	42629866.56	42629866.81	0.0283	0.0116	
Uranus	112023-03-03 06:27 G		42636681.57	42636681.77	42636682.01	0.0135	0.0086	
Jupiter	112042-11-27 09:49 G		42643890.69	42643890.91	42643891.13	0.0488	0.0336	
Jupiter	112060-11-01 16:46 G		42650439.97	42650440.20	42650440.44	0.0540	0.0157	
Neptune	112069-03-20 06:56 G		42653500.49	42653500.79	42653501.14	0.0088	0.0031	
Neptune	112071-02-14 16:18 G		42654197.12	42654197.18	42654197.29	0.0088	0.0085	
Saturn	112092-11-28 19:10 G		42662155.12	42662155.30	42662155.51	0.0283	0.0190	
Uranus	112105-11-27 01:10 G		42666900.51	42666900.55	42666900.62	0.0135	0.0133	
Uranus	112148-02-19 16:46 G		42682325.03	42682325.20	42682325.40	0.0143	0.0118	
Neptune	112151-02-08 18:27 G		42683409.99	42683410.27	42683410.56	0.0089	0.0002	
Saturn	112165-04-16 09:20 G		42688590.88	42688590.89	42688590.92	0.0279	0.0278	
Saturn	112181-04-24 23:58 G		42694443.38	42694443.50	42694443.65	0.0282	0.0240	
Uranus	112190-07-22 05:15 G		42697818.44	42697818.72	42697819.01	0.0135	0.0005	
Jupiter	112197-02-21 20:22 G		42700225.05	42700225.35	42700225.64	0.0488	0.0103	
Jupiter	112215-01-29 02:22 G		42706774.38	42706774.60	42706774.82	0.0540	0.0257	

Uranus	112232-10-16 23:01 G	42713245.17	42713245.46	42713245.77	0.0143	0.0063
Neptune	112232-11-02 20:22 G	42713262.18	42713262.35	42713262.57	0.0088	0.0072
Neptune	112234-09-30 04:03 G	42713958.38	42713958.67	42713958.98	0.0088	0.0043
Saturn	112253-09-09 08:37 G	42720877.80	42720877.86	42720877.94	0.0279	0.0271
Pluto	112268-05-24 12:27 G	42726248.85	42726249.02	42726249.24	0.0082	0.0066
Saturn	112269-09-19 04:03 G	42726731.65	42726731.67	42726731.71	0.0282	0.0280
Uranus	112275-03-17 07:54 G	42728736.73	42728736.83	42728736.97	0.0135	0.0122
Neptune	112314-09-26 08:37 G	42743173.61	42743173.86	42743174.13	0.0090	0.0037
Neptune	112316-08-19 23:01 G	42743867.26	42743867.46	42743867.67	0.0089	0.0062
Saturn	112342-02-03 09:49 G	42753165.70	42753165.91	42753166.15	0.0279	0.0200
Uranus	112357-12-11 01:25 G	42758955.40	42758955.56	42758955.78	0.0135	0.0101
Neptune	112398-05-14 16:18 G	42773719.84	42773720.18	42773720.53	0.0088	0.0001
Uranus	112400-03-04 05:44 G	42774379.46	42774379.74	42774380.04	0.0143	0.0067
Pluto	112423-09-09 09:20 G	42782968.71	42782968.89	42782969.12	0.0063	0.0046
Saturn	112430-06-28 19:10 G	42785453.06	42785453.30	42785453.57	0.0279	0.0173
Uranus	112442-08-05 05:15 G	42789873.44	42789873.72	42789874.00	0.0135	0.0027
Jupiter	112469-11-07 23:44 G	42799830.25	42799830.49	42799830.75	0.0488	0.0275
Neptune	112478-05-11 23:44 G	42802937.35	42802937.49	42802937.68	0.0090	0.0074
Neptune	112480-04-04 14:08 G	42803630.83	42803631.09	42803631.38	0.0090	0.0027
Uranus	112484-10-29 13:10 G	42805299.87	42805300.05	42805300.25	0.0143	0.0117
Jupiter	112487-10-15 18:56 G	42806381.08	42806381.29	42806381.51	0.0540	0.0265
Pluto	112514-10-18 17:44 G	42816244.94	42816245.24	42816245.57	0.0081	0.0024
Saturn	112518-11-23 11:01 G	42817741.65	42817741.96	42817742.29	0.0279	0.0069
Neptune	112561-12-27 04:32 G	42833481.40	42833481.69	42833482.01	0.0088	0.0041
Neptune	112563-11-23 11:44 G	42834177.81	42834177.99	42834178.18	0.0088	0.0074
Saturn	112593-03-15 06:42 G	42844882.61	42844882.78	42844882.96	0.0280	0.0206
Saturn	112607-04-20 13:10 G	42850030.73	42850031.05	42850031.38	0.0279	0.0047
Uranus	112609-12-25 03:34 G	42851010.40	42851010.65	42851010.91	0.0135	0.0063
Jupiter	112624-02-03 11:44 G	42856163.69	42856163.99	42856164.29	0.0488	0.0062
Jupiter	112642-01-10 06:27 G	42862714.52	42862714.77	42862715.02	0.0539	0.0022

Neptune	112643-11-21 05:58 G	42863394.47	42863394.75	42863395.04	0.0090	0.0011
Neptune	112645-10-14 19:10 G	42864088.30	42864088.30	42864088.34	0.0089	0.0089
Uranus	112652-03-17 15:34 G	42866433.82	42866434.15	42866434.48	0.0143	0.0016
Pluto	112670-02-01 20:37 G	42872964.08	42872964.36	42872964.66	0.0063	0.0019
Saturn	112681-08-10 05:58 G	42877171.51	42877171.75	42877171.99	0.0280	0.0114
Uranus	112694-08-19 09:34 G	42881928.66	42881928.90	42881929.15	0.0135	0.0069
Saturn	112695-09-15 02:08 G	42882320.37	42882320.59	42882320.84	0.0279	0.0194
Neptune	112725-08-11 17:58 G	42893243.19	42893243.25	42893243.40	0.0088	0.0084
Neptune	112727-07-08 23:15 G	42893939.16	42893939.47	42893939.80	0.0088	0.0031
Saturn	112770-01-06 02:08 G	42909461.33	42909461.59	42909461.85	0.0281	0.0030
Jupiter	112778-04-29 17:44 G	42912497.04	42912497.24	42912497.43	0.0488	0.0372
Jupiter	112796-04-05 23:44 G	42919048.30	42919048.49	42919048.68	0.0540	0.0345
Neptune	112807-07-07 17:58 G	42923158.03	42923158.25	42923158.51	0.0090	0.0049
Neptune	112809-05-31 10:17 G	42923851.72	42923851.93	42923852.19	0.0090	0.0053
Saturn	112858-06-01 22:17 G	42941750.19	42941750.43	42941750.67	0.0280	0.0118
Uranus	112862-01-07 09:05 G	42943065.61	42943065.88	42943066.17	0.0135	0.0024
Neptune	112891-02-19 11:29 G	42953700.65	42953700.98	42953701.33	0.0088	0.0012
Uranus	112904-03-31 05:01 G	42958488.39	42958488.71	42958489.03	0.0143	0.0035
Pluto	112916-06-27 14:08 G	42962959.81	42962960.09	42962960.40	0.0063	0.0017
Uranus	112946-09-02 14:08 G	42973983.93	42973984.09	42973984.28	0.0135	0.0106
Saturn	112946-10-28 01:39 G	42974039.41	42974039.57	42974039.74	0.0281	0.0218
Neptune	112971-02-21 05:58 G	42982921.72	42982921.75	42982921.83	0.0090	0.0088
Neptune	112973-01-14 22:32 G	42983615.17	42983615.44	42983615.74	0.0090	0.0015

114TH MILLENNIUM CE

This is a list of transits of Mars in the 114th millennium CE.

	FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
	TRANSIT								
	TIME								
Uranus	113029-05-29 07:53	G		43004202.68	43004202.83	43004202.98	0.0135	0.0115	
Jupiter	113051-01-12 10:46	G		43012100.67	43012100.95	43012101.24	0.0489	0.0163	
Neptune	113054-10-05 00:13	G		43013462.27	43013462.51	43013462.81	0.0088	0.0055	
Neptune	113056-08-31 03:49	G		43014158.43	43014158.66	43014158.93	0.0088	0.0060	
Jupiter	113068-12-21 23:01	G		43018654.25	43018654.46	43018654.68	0.0539	0.0266	
Uranus	113071-08-17 17:15	G		43019622.99	43019623.22	43019623.50	0.0143	0.0092	
Uranus	113114-01-22 15:34	G		43035120.88	43035121.15	43035121.44	0.0135	0.0020	
Neptune	113136-09-01 09:34	G		43043378.64	43043378.90	43043379.20	0.0090	0.0026	
Neptune	113138-07-27 01:39	G		43044072.42	43044072.57	43044072.72	0.0090	0.0076	
Uranus	113156-04-13 21:49	G		43050543.18	43050543.41	43050543.69	0.0143	0.0093	
Pluto	113162-11-21 03:05	G		43052955.44	43052955.63	43052955.83	0.0063	0.0048	
Saturn	113195-12-24 21:05	G		43065042.24	43065042.38	43065042.55	0.0281	0.0246	
Jupiter	113205-04-09 04:17	G		43068435.45	43068435.68	43068435.93	0.0488	0.0297	
Neptune	113220-04-14 14:08	G		43073919.76	43073920.09	43073920.44	0.0088	0.0015	
Jupiter	113223-03-19 10:32	G		43074988.70	43074988.94	43074989.18	0.0540	0.0156	
Uranus	113281-06-11 18:27	G		43096258.03	43096258.27	43096258.54	0.0135	0.0063	
Saturn	113284-05-17 22:32	G		43097329.28	43097329.44	43097329.62	0.0282	0.0238	
Neptune	113300-04-17 17:01	G		43103142.04	43103142.21	43103142.43	0.0090	0.0066	
Neptune	113302-03-12 11:58	G		43103835.76	43103836.00	43103836.28	0.0090	0.0037	
Uranus	113323-08-31 08:08	G		43111677.53	43111677.84	43111678.17	0.0143	0.0037	
Uranus	113366-02-05 05:44	G		43127176.51	43127176.74	43127177.00	0.0135	0.0073	
Saturn	113372-10-12 03:34	G		43129617.39	43129617.65	43129617.93	0.0281	0.0157	
Jupiter	113377-06-13 07:53	G		43131322.75	43131322.83	43131322.93	0.0539	0.0504	
Neptune	113383-11-28 01:39	G		43133681.27	43133681.57	43133681.91	0.0088	0.0030	
Neptune	113385-10-24 02:22	G		43134377.57	43134377.60	43134377.72	0.0088	0.0086	
Saturn	113447-02-11 05:15	G		43156766.54	43156766.72	43156766.93	0.0278	0.0190	

Saturn	113461-03-08 11:44 G	43161905.68	43161905.99	43161906.31	0.0282	0.0081
Neptune	113465-10-26 18:13 G	43163598.98	43163599.26	43163599.56	0.0090	0.0004
Jupiter	113477-12-23 17:15 G	43168039.94	43168040.22	43168040.51	0.0489	0.0148
Jupiter	113495-12-04 07:39 G	43174594.69	43174594.82	43174594.97	0.0538	0.0446
Pluto	113498-07-02 14:51 G	43175535.81	43175536.12	43175536.45	0.0081	0.0019
Uranus	113533-06-27 09:20 G	43188313.61	43188313.89	43188314.18	0.0135	0.0012
Saturn	113535-07-08 22:46 G	43189055.21	43189055.45	43189055.70	0.0278	0.0112
Neptune	113547-07-13 13:53 G	43193442.90	43193443.08	43193443.26	0.0088	0.0074
Neptune	113549-06-08 12:56 G	43194138.76	43194139.04	43194139.37	0.0088	0.0040
Saturn	113549-08-03 14:37 G	43194194.79	43194195.11	43194195.43	0.0281	0.0047
Uranus	113575-09-14 09:20 G	43203732.57	43203732.89	43203733.21	0.0143	0.0026
Uranus	113618-02-19 19:39 G	43219232.23	43219232.32	43219232.43	0.0135	0.0126
Saturn	113623-12-03 17:29 G	43221344.96	43221345.23	43221345.49	0.0279	0.0030
Neptune	113629-06-11 23:01 G	43223362.23	43223362.46	43223362.73	0.0090	0.0046
Neptune	113631-05-06 17:29 G	43224056.02	43224056.23	43224056.46	0.0090	0.0057
Jupiter	113632-03-19 03:49 G	43224373.39	43224373.66	43224373.94	0.0489	0.0181
Saturn	113637-12-29 12:56 G	43226484.84	43226485.04	43226485.27	0.0281	0.0214
Jupiter	113650-02-28 03:20 G	43230928.39	43230928.64	43230928.89	0.0539	0.0108
Uranus	113700-11-15 14:22 G	43249450.90	43249451.10	43249451.32	0.0135	0.0092
Saturn	113712-04-29 15:34 G	43253633.92	43253634.15	43253634.40	0.0278	0.0125
Neptune	113713-01-20 23:29 G	43253900.14	43253900.48	43253900.82	0.0088	0.0006
Uranus	113743-01-31 00:41 G	43264867.31	43264867.53	43264867.78	0.0143	0.0100
Pluto	113744-11-25 22:32 G	43265532.36	43265532.44	43265532.59	0.0081	0.0076
Uranus	113785-07-11 02:51 G	43280369.36	43280369.62	43280369.90	0.0135	0.0049
Jupiter	113786-06-13 11:29 G	43280706.96	43280706.98	43280707.01	0.0489	0.0487
Neptune	113793-01-26 01:39 G	43283125.57	43283125.57	43283125.60	0.0090	0.0089
Neptune	113794-12-20 22:17 G	43283819.16	43283819.43	43283819.73	0.0090	0.0015
Saturn	113800-09-25 01:39 G	43285923.45	43285923.57	43285923.71	0.0279	0.0244
Jupiter	113804-05-25 11:01 G	43287261.72	43287261.96	43287262.20	0.0538	0.0170
Uranus	113827-09-28 02:37 G	43295787.37	43295787.61	43295787.89	0.0143	0.0085

Neptune	113876-09-04 12:27 G	43313661.75	43313662.02	43313662.30	0.0088	0.0051
Neptune	113878-08-01 09:34 G	43314357.68	43314357.90	43314358.15	0.0088	0.0063
Pluto	113900-03-13 10:46 G	43322251.66	43322251.95	43322252.25	0.0063	0.0019
Jupiter	113904-12-02 13:39 G	43323976.90	43323977.07	43323977.26	0.0490	0.0392
Uranus	113952-11-30 10:17 G	43341506.66	43341506.93	43341507.23	0.0135	0.0032
Neptune	113958-08-06 23:58 G	43343582.22	43343582.50	43343582.78	0.0090	0.0029
Neptune	113960-06-30 19:53 G	43344276.20	43344276.33	43344276.53	0.0090	0.0075
Uranus	113995-02-13 20:51 G	43356922.08	43356922.37	43356922.70	0.0143	0.0044

115TH MILLENNIUM CE

This is a list of transits of Mars in the 115th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	114037-07-25 23:29 G	43372425.32	43372425.48	43372425.67	0.0135	0.0108		
Neptune	114042-03-15 21:20 G	43374119.07	43374119.39	43374119.73	0.0088	0.0017		
Jupiter	114059-02-26 23:58 G	43380311.21	43380311.50	43380311.80	0.0490	0.0029		
Jupiter	114077-02-08 18:13 G	43386868.08	43386868.26	43386868.44	0.0538	0.0375		
Uranus	114120-04-20 15:49 G	43402644.01	43402644.16	43402644.31	0.0135	0.0114		
Neptune	114122-03-22 23:58 G	43403345.36	43403345.50	43403345.69	0.0090	0.0074		
Neptune	114124-02-14 22:03 G	43404039.16	43404039.42	43404039.71	0.0090	0.0031		
Pluto	114146-08-06 04:32 G	43412247.43	43412247.69	43412248.00	0.0063	0.0023		
Uranus	114204-12-15 06:41 G	43433562.50	43433562.78	43433563.07	0.0135	0.0029		
Neptune	114205-10-29 11:58 G	43433880.70	43433881.00	43433881.34	0.0088	0.0028		
Neptune	114207-09-25 07:25 G	43434576.78	43434576.81	43434576.91	0.0088	0.0086		

Saturn	114212-08-14 10:32 G	43436361.82	43436361.94	43436362.08	0.0276	0.0239
Jupiter	114213-05-25 10:03 G	43436645.81	43436645.92	43436646.05	0.0489	0.0447
Saturn	114226-09-02 03:20 G	43441493.47	43441493.64	43441493.84	0.0283	0.0232
Jupiter	114231-05-07 18:13 G	43443202.01	43443202.26	43443202.52	0.0538	0.0013
Uranus	114247-02-28 04:03 G	43448977.35	43448977.67	43448977.99	0.0143	0.0025
Neptune	114287-09-30 23:29 G	43463802.20	43463802.48	43463802.78	0.0090	0.0014
Saturn	114301-01-09 11:29 G	43468650.76	43468650.98	43468651.22	0.0276	0.0139
Saturn	114315-01-26 22:17 G	43473781.20	43473781.43	43473781.68	0.0283	0.0188
Jupiter	114331-11-14 03:34 G	43479916.46	43479916.65	43479916.86	0.0491	0.0366
Neptune	114369-06-13 02:51 G	43493642.48	43493642.62	43493642.84	0.0088	0.0074
Neptune	114371-05-09 21:05 G	43494338.10	43494338.38	43494338.70	0.0088	0.0040
Uranus	114372-05-05 12:56 G	43494699.78	43494700.04	43494700.32	0.0135	0.0049
Jupiter	114385-08-02 06:27 G	43499536.61	43499536.77	43499536.93	0.0538	0.0415
Saturn	114389-06-04 22:46 G	43500939.19	43500939.45	43500939.71	0.0276	0.0078
Saturn	114403-06-22 14:08 G	43506069.79	43506070.09	43506070.41	0.0283	0.0086
Uranus	114414-07-17 00:56 G	43510112.33	43510112.54	43510112.79	0.0143	0.0101
Neptune	114451-05-16 23:44 G	43523565.29	43523565.49	43523565.73	0.0090	0.0058
Neptune	114453-04-09 23:00 G	43524259.24	43524259.46	43524259.73	0.0090	0.0048
Uranus	114456-12-29 04:32 G	43525618.51	43525618.69	43525618.93	0.0135	0.0095
Saturn	114477-10-30 13:39 G	43533228.81	43533229.07	43533229.34	0.0277	0.0053
Pluto	114482-03-17 23:00 G	43534828.15	43534828.46	43534828.80	0.0081	0.0009
Jupiter	114486-02-06 23:44 G	43536250.19	43536250.49	43536250.79	0.0491	0.0004
Saturn	114491-11-17 00:27 G	43538359.20	43538359.52	43538359.84	0.0283	0.0051
Uranus	114499-03-13 01:39 G	43541032.34	43541032.57	43541032.86	0.0143	0.0085
Neptune	114534-12-22 13:24 G	43554099.73	43554100.06	43554100.40	0.0088	0.0006
Uranus	114539-09-24 17:00 G	43555837.17	43555837.21	43555837.25	0.0135	0.0134
Saturn	114566-03-27 11:29 G	43565517.76	43565517.98	43565518.22	0.0277	0.0144
Saturn	114580-04-13 07:53 G	43570648.59	43570648.83	43570649.07	0.0283	0.0189
Neptune	114616-11-25 00:41 G	43584022.23	43584022.53	43584022.82	0.0090	0.0004
Uranus	114624-05-20 08:22 G	43586755.55	43586755.85	43586756.14	0.0135	0.0009

Jupiter	114640-05-04 08:36 G	43592583.62	43592583.86	43592584.09	0.0491	0.0297
Saturn	114654-08-23 02:08 G	43597807.56	43597807.59	43597807.61	0.0277	0.0276
Jupiter	114658-04-18 02:51 G	43599141.42	43599141.62	43599141.84	0.0536	0.0296
Uranus	114666-07-31 04:17 G	43602167.38	43602167.68	43602168.00	0.0143	0.0039
Neptune	114698-08-06 07:39 G	43613861.57	43613861.82	43613862.11	0.0088	0.0051
Neptune	114700-07-02 23:29 G	43614557.28	43614557.48	43614557.75	0.0088	0.0063
Neptune	114780-07-11 01:39 G	43643785.33	43643785.57	43643785.86	0.0090	0.0040
Neptune	114782-06-05 01:53 G	43644479.39	43644479.58	43644479.78	0.0090	0.0066
Uranus	114791-10-09 08:08 G	43647892.61	43647892.84	43647893.10	0.0135	0.0077
Jupiter	114812-07-13 01:39 G	43655475.31	43655475.57	43655475.82	0.0537	0.0052
Neptune	114864-02-14 17:29 G	43674318.90	43674319.23	43674319.56	0.0088	0.0017
Uranus	114876-06-02 21:20 G	43678811.15	43678811.39	43678811.66	0.0135	0.0067
Pluto	114883-11-26 17:44 G	43681544.04	43681544.24	43681544.50	0.0064	0.0042
Jupiter	114913-01-17 14:36 G	43692187.84	43692188.11	43692188.37	0.0491	0.0208
Uranus	114918-08-14 05:15 G	43694222.41	43694222.72	43694223.04	0.0143	0.0022
Neptune	114944-02-25 03:05 G	43703548.56	43703548.63	43703548.77	0.0090	0.0084
Neptune	114946-01-19 05:15 G	43704242.45	43704242.72	43704243.02	0.0090	0.0024
Jupiter	114966-10-07 19:24 G	43711809.14	43711809.31	43711809.50	0.0537	0.0373
Saturn	114978-02-16 01:53 G	43715958.40	43715958.58	43715958.78	0.0275	0.0193

116TH MILLENNIUM CE

This is a list of transits of Mars in the 116th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								

Neptune	115027-09-30 14:36 G	43734080.80	43734081.11	43734081.43	0.0088	0.0027
Neptune	115029-08-26 04:17 G	43734776.67	43734776.68	43734776.78	0.0088	0.0087
Uranus	115043-10-23 18:41 G	43739947.99	43739948.28	43739948.58	0.0135	0.0024
Saturn	115066-07-13 05:29 G	43748246.51	43748246.73	43748246.96	0.0275	0.0150
Jupiter	115067-04-14 21:48 G	43748522.14	43748522.41	43748522.68	0.0491	0.0190
Jupiter	115085-03-29 19:24 G	43755081.29	43755081.31	43755081.33	0.0536	0.0534
Uranus	115085-12-31 03:34 G	43755357.46	43755357.65	43755357.89	0.0143	0.0107
Neptune	115109-09-05 07:24 G	43764005.53	43764005.81	43764006.11	0.0090	0.0019
Neptune	115111-07-31 08:22 G	43764699.82	43764699.85	43764699.94	0.0090	0.0088
Uranus	115128-06-18 07:10 G	43770866.69	43770866.80	43770866.98	0.0135	0.0118
Pluto	115130-04-22 09:05 G	43771539.59	43771539.88	43771540.19	0.0064	0.0010
Saturn	115154-12-08 02:51 G	43780535.36	43780535.62	43780535.89	0.0275	0.0059
Saturn	115168-12-16 01:39 G	43785657.52	43785657.57	43785657.66	0.0285	0.0278
Uranus	115170-08-28 01:39 G	43786277.32	43786277.57	43786277.86	0.0143	0.0077
Neptune	115191-05-15 12:56 G	43793842.88	43793843.04	43793843.27	0.0088	0.0071
Neptune	115193-04-10 00:56 G	43794538.27	43794538.54	43794538.86	0.0088	0.0042
Uranus	115211-03-13 08:51 G	43801084.78	43801084.87	43801085.02	0.0135	0.0124
Jupiter	115239-06-25 11:44 G	43811415.73	43811415.99	43811416.24	0.0536	0.0080
Saturn	115243-05-03 08:08 G	43812823.57	43812823.84	43812824.11	0.0275	0.0012
Saturn	115257-05-11 06:56 G	43817945.58	43817945.79	43817946.04	0.0285	0.0199
Neptune	115273-04-20 08:08 G	43823768.65	43823768.84	43823769.08	0.0090	0.0062
Neptune	115275-03-15 12:12 G	43824462.76	43824463.01	43824463.27	0.0090	0.0046
Uranus	115295-11-05 23:00 G	43832003.17	43832003.46	43832003.76	0.0135	0.0021
Saturn	115331-09-28 16:32 G	43845112.95	43845113.19	43845113.44	0.0275	0.0105
Uranus	115338-01-14 03:48 G	43847412.37	43847412.66	43847412.97	0.0143	0.0049
Jupiter	115339-12-30 04:46 G	43848127.44	43848127.70	43848127.97	0.0492	0.0193
Saturn	115345-10-06 00:41 G	43850234.24	43850234.53	43850234.84	0.0284	0.0100
Neptune	115356-11-23 01:24 G	43854300.23	43854300.56	43854300.89	0.0088	0.0001
Pluto	115376-09-14 00:12 G	43861535.24	43861535.51	43861535.81	0.0064	0.0024
Jupiter	115393-09-18 23:58 G	43867749.27	43867749.50	43867749.74	0.0536	0.0223

Saturn	115420-02-23 08:36 G	43877401.68	43877401.86	43877402.08	0.0275	0.0184
Uranus	115422-09-10 23:44 G	43878332.39	43878332.49	43878332.62	0.0143	0.0133
Saturn	115434-03-03 00:27 G	43882523.20	43882523.52	43882523.84	0.0284	0.0021
Neptune	115438-10-30 14:51 G	43884225.83	43884226.12	43884226.42	0.0090	0.0005
Uranus	115463-03-27 11:15 G	43893139.75	43893139.97	43893140.24	0.0135	0.0077
Pluto	115465-12-01 15:48 G	43894119.86	43894120.16	43894120.49	0.0081	0.0018
Jupiter	115494-03-25 16:17 G	43904460.90	43904461.18	43904461.47	0.0492	0.0119
Neptune	115520-07-09 01:53 G	43914062.32	43914062.58	43914062.89	0.0088	0.0045
Neptune	115522-06-04 12:41 G	43914757.86	43914758.03	43914758.27	0.0088	0.0069
Saturn	115522-07-30 04:03 G	43914813.47	43914813.67	43914813.91	0.0284	0.0206
Uranus	115547-11-20 23:58 G	43924058.25	43924058.50	43924058.77	0.0135	0.0066
Uranus	115590-01-27 21:34 G	43939467.08	43939467.40	43939467.72	0.0142	0.0002
Neptune	115602-06-15 17:29 G	43943988.97	43943989.23	43943989.51	0.0090	0.0037
Neptune	115604-05-09 21:34 G	43944683.23	43944683.40	43944683.59	0.0090	0.0071
Pluto	115623-02-07 11:44 G	43951530.84	43951530.99	43951531.20	0.0064	0.0051
Jupiter	115648-06-19 02:22 G	43960794.46	43960794.60	43960794.76	0.0492	0.0420
Jupiter	115666-06-05 01:24 G	43967354.41	43967354.56	43967354.72	0.0535	0.0424
Neptune	115684-02-21 06:56 G	43973824.73	43973824.79	43973824.85	0.0088	0.0086
Neptune	115686-01-16 14:22 G	43974519.80	43974520.10	43974520.43	0.0088	0.0026
Pluto	115712-04-26 16:17 G	43984115.97	43984116.18	43984116.46	0.0080	0.0052
Uranus	115715-04-10 09:20 G	43985194.61	43985194.89	43985195.18	0.0136	0.0039
Saturn	115743-08-20 16:17 G	43995554.01	43995554.18	43995554.38	0.0275	0.0201
Uranus	115757-06-16 00:27 G	44000602.40	44000602.52	44000602.67	0.0142	0.0128
Neptune	115766-01-29 18:12 G	44003752.14	44003752.26	44003752.43	0.0090	0.0079
Jupiter	115766-12-08 17:15 G	44004065.08	44004065.22	44004065.38	0.0494	0.0420
Neptune	115767-12-25 01:10 G	44004446.27	44004446.55	44004446.84	0.0090	0.0030
Uranus	115799-12-03 21:34 G	44016113.21	44016113.40	44016113.59	0.0136	0.0104
Jupiter	115820-08-30 13:10 G	44023687.80	44023688.05	44023688.30	0.0535	0.0135
Saturn	115832-01-15 13:24 G	44027842.81	44027843.06	44027843.31	0.0274	0.0103
Uranus	115842-02-10 17:29 G	44031521.96	44031522.23	44031522.55	0.0142	0.0054

Neptune	115849-09-01 20:08 G	44034282.03	44034282.34	44034282.68	0.0088	0.0017
Saturn	115920-06-10 20:36 G	44060131.09	44060131.36	44060131.63	0.0274	0.0049
Jupiter	115921-03-05 18:12 G	44060398.97	44060399.26	44060399.55	0.0494	0.0056
Neptune	115931-08-11 03:34 G	44064209.36	44064209.65	44064209.96	0.0090	0.0011
Uranus	115967-04-24 04:17 G	44077249.38	44077249.68	44077249.98	0.0136	0.0001
Jupiter	115974-11-26 06:12 G	44080022.56	44080022.76	44080022.97	0.0535	0.0319

117TH MILLENNIUM CE

This is a list of transits of Mars in the 117th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	116008-11-04 16:46 G		44092419.94	44092420.20	44092420.47	0.0274	0.0040	
Uranus	116009-06-29 19:53 G		44092657.09	44092657.33	44092657.62	0.0142	0.0078	
Neptune	116013-04-17 02:22 G		44094044.37	44094044.60	44094044.85	0.0088	0.0058	
Neptune	116015-03-13 09:20 G		44094739.65	44094739.89	44094740.16	0.0088	0.0054	
Jupiter	116075-05-31 11:58 G		44116733.83	44116734.00	44116734.18	0.0493	0.0388	
Uranus	116094-02-23 09:48 G		44123576.69	44123576.91	44123577.14	0.0142	0.0100	
Neptune	116095-03-26 06:27 G		44123972.53	44123972.77	44123973.02	0.0090	0.0052	
Neptune	116097-02-17 13:39 G		44124666.85	44124667.07	44124667.31	0.0090	0.0058	
Saturn	116097-03-30 19:10 G		44124708.04	44124708.30	44124708.56	0.0274	0.0079	
Uranus	116134-09-11 10:03 G		44138385.76	44138385.92	44138386.13	0.0136	0.0107	
Neptune	116178-10-26 17:00 G		44154501.90	44154502.21	44154502.55	0.0088	0.0013	
Saturn	116185-08-25 21:48 G		44156997.22	44156997.41	44156997.63	0.0274	0.0183	
Jupiter	116193-11-19 15:48 G		44160005.00	44160005.16	44160005.35	0.0495	0.0395	

Saturn	116199-08-25 21:34 G	44162110.21	44162110.40	44162110.61	0.0285	0.0222
Uranus	116219-05-07 23:15 G	44169304.19	44169304.47	44169304.77	0.0136	0.0036
Jupiter	116247-08-12 18:27 G	44179628.04	44179628.27	44179628.50	0.0533	0.0252
Neptune	116260-10-04 16:32 G	44184429.90	44184430.19	44184430.49	0.0090	0.0017
Uranus	116261-07-13 11:58 G	44184711.71	44184712.00	44184712.32	0.0142	0.0034
Saturn	116274-01-20 08:36 G	44189285.75	44189285.86	44189285.99	0.0274	0.0245
Saturn	116288-01-20 11:29 G	44194398.70	44194398.98	44194399.27	0.0285	0.0127
Neptune	116342-06-12 02:51 G	44214264.33	44214264.62	44214264.94	0.0088	0.0029
Neptune	116344-05-07 07:10 G	44214959.72	44214959.80	44214959.92	0.0088	0.0083
Jupiter	116348-02-15 10:46 G	44216338.66	44216338.95	44216339.23	0.0495	0.0060
Saturn	116376-06-17 04:46 G	44226688.38	44226688.70	44226689.01	0.0285	0.0032
Uranus	116386-09-25 02:51 G	44230440.37	44230440.62	44230440.88	0.0136	0.0075
Jupiter	116401-11-06 20:08 G	44235962.09	44235962.34	44235962.60	0.0534	0.0116
Neptune	116424-05-20 17:15 G	44244192.93	44244193.22	44244193.52	0.0090	0.0025
Neptune	116426-04-15 02:08 G	44244887.53	44244887.59	44244887.71	0.0090	0.0086
Saturn	116464-11-11 06:41 G	44258977.52	44258977.78	44258978.05	0.0285	0.0156
Uranus	116471-05-20 16:46 G	44261358.96	44261359.20	44261359.47	0.0136	0.0072
Jupiter	116502-05-11 23:00 G	44272672.21	44272672.46	44272672.71	0.0495	0.0239
Neptune	116506-01-25 12:41 G	44274026.87	44274027.03	44274027.26	0.0088	0.0070
Neptune	116507-12-21 16:46 G	44274721.93	44274722.20	44274722.50	0.0088	0.0042
Saturn	116509-02-20 11:00 G	44275148.86	44275148.96	44275149.10	0.0274	0.0245
Uranus	116513-07-27 08:51 G	44276766.56	44276766.87	44276767.19	0.0142	0.0015
Jupiter	116556-01-31 23:44 G	44292295.30	44292295.49	44292295.68	0.0534	0.0361
Neptune	116588-01-04 17:15 G	44303956.05	44303956.22	44303956.44	0.0090	0.0068
Neptune	116589-11-29 04:03 G	44304650.41	44304650.67	44304650.93	0.0090	0.0044
Saturn	116597-07-17 16:46 G	44307437.97	44307438.20	44307438.45	0.0274	0.0132
Uranus	116638-10-08 22:46 G	44322495.16	44322495.45	44322495.75	0.0136	0.0034
Neptune	116671-08-06 02:51 G	44334484.30	44334484.62	44334484.94	0.0088	0.0000
Uranus	116680-12-13 13:24 G	44337901.91	44337902.06	44337902.26	0.0142	0.0117
Saturn	116685-12-12 18:41 G	44339727.00	44339727.28	44339727.55	0.0273	0.0022

Uranus	116723-06-04 13:39 G	44353413.93	44353414.07	44353414.26	0.0136	0.0113
Neptune	116753-07-16 04:32 G	44364413.39	44364413.69	44364414.00	0.0090	0.0002
Uranus	116765-08-10 01:39 G	44368821.30	44368821.57	44368821.87	0.0142	0.0060
Saturn	116774-05-09 08:22 G	44372015.58	44372015.85	44372016.12	0.0274	0.0050
Jupiter	116775-01-25 09:20 G	44372276.66	44372276.89	44372277.13	0.0496	0.0282
Jupiter	116828-10-17 14:22 G	44391900.85	44391901.10	44391901.35	0.0532	0.0187
Neptune	116835-03-21 13:10 G	44394246.80	44394247.05	44394247.37	0.0088	0.0043
Neptune	116837-02-13 13:39 G	44394941.91	44394942.07	44394942.31	0.0088	0.0070
Saturn	116862-10-03 06:12 G	44404304.54	44404304.76	44404305.00	0.0273	0.0147
Uranus	116890-10-21 18:12 G	44414549.96	44414550.26	44414550.57	0.0136	0.0005
Neptune	116917-03-01 00:56 G	44424176.29	44424176.54	44424176.84	0.0090	0.0042
Neptune	116919-01-24 13:53 G	44424870.91	44424871.08	44424871.28	0.0090	0.0071
Jupiter	116929-04-22 00:56 G	44428611.28	44428611.54	44428611.82	0.0496	0.0146
Uranus	116932-12-27 09:48 G	44429956.65	44429956.91	44429957.18	0.0142	0.0071
Saturn	116951-02-27 08:08 G	44436592.65	44436592.84	44436593.05	0.0273	0.0188
Jupiter	116983-01-12 12:12 G	44448234.76	44448235.01	44448235.26	0.0532	0.0168
Neptune	116998-11-04 01:53 G	44454009.51	44454009.58	44454009.70	0.0088	0.0084
Neptune	117000-09-30 01:24 G	44454704.27	44454704.56	44454704.88	0.0088	0.0027

118TH MILLENNIUM CE

This is a list of transits of Mars in the 118th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Uranus	117017-08-23 22:32 G	44460876.26	44460876.44	44460876.66	0.0142	0.0109		

Uranus	117058-03-11 20:51 G	44475686.19	44475686.37	44475686.59	0.0136	0.0103
Neptune	117080-10-14 19:53 G	44483939.28	44483939.33	44483939.46	0.0090	0.0086
Neptune	117082-09-09 10:32 G	44484633.65	44484633.94	44484634.23	0.0090	0.0028
Saturn	117141-12-10 23:15 G	44506275.32	44506275.47	44506275.65	0.0286	0.0241
Uranus	117142-11-05 15:34 G	44506604.88	44506605.15	44506605.45	0.0136	0.0050
Neptune	117164-05-15 10:46 G	44514466.65	44514466.95	44514467.28	0.0088	0.0017
Uranus	117185-01-10 06:12 G	44522011.46	44522011.76	44522012.07	0.0143	0.0022
Jupiter	117202-01-06 13:53 G	44528216.85	44528217.08	44528217.33	0.0498	0.0253
Saturn	117230-05-07 02:08 G	44538564.31	44538564.59	44538564.88	0.0286	0.0117
Neptune	117246-04-25 05:29 G	44544396.44	44544396.73	44544397.04	0.0090	0.0017
Jupiter	117255-09-29 05:29 G	44547840.54	44547840.73	44547840.94	0.0530	0.0339
Uranus	117310-03-25 22:46 G	44567741.17	44567741.45	44567741.73	0.0136	0.0054
Saturn	117318-10-01 21:48 G	44570853.09	44570853.41	44570853.72	0.0286	0.0010
Neptune	117327-12-29 23:00 G	44574229.24	44574229.46	44574229.71	0.0088	0.0059
Neptune	117329-11-23 19:53 G	44574924.09	44574924.33	44574924.60	0.0088	0.0052
Jupiter	117356-04-02 05:15 G	44584550.44	44584550.72	44584551.01	0.0498	0.0060
Saturn	117363-01-17 21:34 G	44587032.21	44587032.40	44587032.60	0.0273	0.0190
Uranus	117394-11-18 18:27 G	44598660.06	44598660.27	44598660.48	0.0135	0.0098
Saturn	117407-02-28 03:48 G	44603143.44	44603143.66	44603143.90	0.0285	0.0190
Neptune	117409-12-09 19:39 G	44604159.12	44604159.32	44604159.56	0.0090	0.0063
Jupiter	117409-12-24 09:20 G	44604173.63	44604173.89	44604174.16	0.0530	0.0082
Neptune	117411-11-04 12:27 G	44604853.79	44604854.02	44604854.29	0.0090	0.0052
Uranus	117437-01-24 02:51 G	44614066.32	44614066.62	44614066.93	0.0143	0.0025
Saturn	117451-06-15 05:58 G	44619321.48	44619321.75	44619322.02	0.0274	0.0067
Neptune	117493-07-09 06:56 G	44634686.48	44634686.79	44634687.11	0.0088	0.0008
Jupiter	117510-06-28 09:20 G	44640883.67	44640883.89	44640884.11	0.0498	0.0315
Saturn	117539-11-10 10:03 G	44651610.66	44651610.92	44651611.20	0.0273	0.0052
Uranus	117562-04-09 02:08 G	44659796.28	44659796.59	44659796.89	0.0135	0.0003
Jupiter	117564-03-20 07:53 G	44660507.61	44660507.83	44660508.07	0.0530	0.0270
Neptune	117575-06-20 02:36 G	44664616.30	44664616.61	44664616.92	0.0090	0.0005

Pluto 117594-04-14 22:46 G 44671490.31 44671490.45 44671490.64 0.0065 0.0055
 Uranus 117604-06-12 18:12 G 44675202.07 44675202.26 44675202.50 0.0143 0.0102
 Saturn 117628-04-05 06:27 G 44683899.54 44683899.77 44683900.01 0.0274 0.0143
 Jupiter 117628-12-16 11:44 G 44684154.97 44684154.99 44684155.03 0.0500 0.0497
 Neptune 117657-02-21 17:29 G 44694448.95 44694449.23 44694449.53 0.0088 0.0036
 Neptune 117659-01-17 12:56 G 44695143.90 44695144.04 44695144.23 0.0088 0.0075
 Uranus 117689-02-06 06:56 G 44706121.55 44706121.79 44706122.06 0.0143 0.0081
 Saturn 117716-08-31 08:08 G 44716188.74 44716188.84 44716188.96 0.0273 0.0250
 Uranus 117729-08-27 11:44 G 44720932.80 44720932.99 44720933.22 0.0135 0.0100
 Neptune 117739-02-02 14:22 G 44724378.85 44724379.10 44724379.39 0.0090 0.0044
 Neptune 117740-12-28 07:39 G 44725073.65 44725073.82 44725074.01 0.0090 0.0072
 Jupiter 117783-03-13 22:17 G 44740489.16 44740489.43 44740489.71 0.0499 0.0098
 Uranus 117814-04-23 13:53 G 44751851.82 44751852.08 44751852.37 0.0135 0.0061
 Neptune 117820-10-08 06:55 G 44754211.68 44754211.79 44754211.94 0.0088 0.0080
 Neptune 117822-09-02 23:43 G 44754906.21 44754906.49 44754906.81 0.0088 0.0031
 Jupiter 117836-12-04 02:51 G 44760112.42 44760112.62 44760112.83 0.0528 0.0334
 Pluto 117840-09-06 02:22 G 44761484.31 44761484.60 44761484.91 0.0065 0.0017
 Uranus 117856-06-26 22:46 G 44767257.17 44767257.45 44767257.75 0.0143 0.0046
 Neptune 117904-08-13 19:10 G 44784836.02 44784836.30 44784836.62 0.0090 0.0024
 Jupiter 117937-06-09 06:27 G 44796823.55 44796823.77 44796824.01 0.0499 0.0284
 Uranus 117941-02-21 08:22 G 44798176.75 44798176.85 44798176.96 0.0143 0.0133
 Uranus 117981-09-11 02:36 G 44812988.31 44812988.61 44812988.91 0.0135 0.0037
 Neptune 117986-04-18 11:43 G 44814668.69 44814668.99 44814669.31 0.0088 0.0016
 Jupiter 117991-03-01 21:34 G 44816447.14 44816447.40 44816447.66 0.0529 0.0120

119TH MILLENNIUM CE

This is a list of transits of Mars in the 119th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	118055-11-28 23:00	G	44840095.37	44840095.46	44840095.57	0.0501	0.0468	
Uranus	118066-05-07 03:05	G	44843907.51	44843907.63	44843907.76	0.0135	0.0123	
Neptune	118068-03-28 03:05	G	44844598.35	44844598.63	44844598.95	0.0090	0.0027	
Neptune	118070-02-20 23:43	G	44845293.49	44845293.49	44845293.51	0.0090	0.0090	
Saturn	118084-03-27 00:27	G	44850441.35	44850441.52	44850441.71	0.0286	0.0230	
Pluto	118087-01-28 00:55	G	44851478.27	44851478.54	44851478.83	0.0064	0.0029	
Uranus	118108-07-11 05:00	G	44859312.40	44859312.71	44859313.01	0.0143	0.0008	
Saturn	118128-07-20 11:29	G	44866626.82	44866626.98	44866627.17	0.0274	0.0213	
Jupiter	118145-05-26 14:36	G	44872780.98	44872781.11	44872781.27	0.0529	0.0447	
Uranus	118149-01-29 12:41	G	44874125.01	44874125.03	44874125.10	0.0136	0.0134	
Neptune	118149-12-02 01:39	G	44874431.37	44874431.57	44874431.83	0.0088	0.0060	
Neptune	118151-10-27 17:00	G	44875125.98	44875126.21	44875126.50	0.0088	0.0051	
Saturn	118172-08-21 12:27	G	44882729.76	44882730.02	44882730.29	0.0286	0.0145	
Pluto	118176-04-16 20:51	G	44884064.11	44884064.37	44884064.68	0.0079	0.0035	
Jupiter	118210-02-23 21:48	G	44896429.14	44896429.41	44896429.68	0.0501	0.0132	
Saturn	118216-12-15 03:05	G	44898915.39	44898915.63	44898915.89	0.0273	0.0128	
Neptune	118231-11-12 08:51	G	44904360.75	44904360.87	44904361.06	0.0090	0.0078	
Uranus	118233-09-25 16:31	G	44905043.90	44905044.19	44905044.50	0.0135	0.0030	
Neptune	118233-10-07 06:55	G	44905055.52	44905055.79	44905056.08	0.0090	0.0040	
Saturn	118261-01-17 11:43	G	44915019.68	44915019.99	44915020.30	0.0285	0.0033	
Jupiter	118263-11-15 08:07	G	44916051.80	44916051.84	44916051.90	0.0526	0.0515	
Uranus	118275-11-29 03:05	G	44920448.46	44920448.63	44920448.82	0.0143	0.0114	
Saturn	118305-05-12 12:12	G	44931204.73	44931205.01	44931205.29	0.0274	0.0005	
Neptune	118315-06-13 05:43	G	44934888.43	44934888.74	44934889.06	0.0088	0.0005	
Saturn	118349-06-14 10:17	G	44947308.67	44947308.93	44947309.20	0.0285	0.0145	

Uranus	118360-07-25 14:36 G	44951367.85	44951368.11	44951368.38	0.0143	0.0069
Jupiter	118364-05-20 03:19 G	44952762.37	44952762.64	44952762.91	0.0501	0.0120
Saturn	118393-10-06 17:00 G	44963493.96	44963494.21	44963494.46	0.0273	0.0116
Neptune	118397-05-22 14:07 G	44964817.78	44964818.09	44964818.40	0.0090	0.0011
Uranus	118401-02-13 05:29 G	44966180.48	44966180.73	44966181.02	0.0136	0.0066
Jupiter	118418-02-09 06:12 G	44972385.51	44972385.76	44972386.02	0.0526	0.0171
Pluto	118422-09-07 21:48 G	44974057.28	44974057.41	44974057.58	0.0080	0.0070
Neptune	118479-01-25 19:39 G	44994651.05	44994651.32	44994651.60	0.0088	0.0041
Neptune	118480-12-20 08:51 G	44995345.71	44995345.87	44995346.09	0.0088	0.0070
Saturn	118482-03-02 19:10 G	44995783.16	44995783.30	44995783.47	0.0274	0.0226
Uranus	118485-10-09 09:34 G	44997099.71	44997099.90	44997100.13	0.0136	0.0098
Jupiter	118518-08-14 23:43 G	45009096.37	45009096.49	45009096.63	0.0500	0.0442
Uranus	118527-12-13 13:10 G	45012503.79	45012504.05	45012504.34	0.0142	0.0056
Neptune	118561-01-04 17:00 G	45024580.02	45024580.21	45024580.46	0.0090	0.0064
Neptune	118562-11-30 17:29 G	45025275.01	45025275.23	45025275.50	0.0090	0.0056
Jupiter	118572-05-05 13:53 G	45028718.81	45028719.08	45028719.34	0.0527	0.0108
Pluto	118581-10-03 06:55 G	45032156.54	45032156.79	45032157.06	0.0065	0.0035
Uranus	118612-08-08 23:15 G	45043423.35	45043423.47	45043423.64	0.0142	0.0126
Jupiter	118637-02-03 12:41 G	45052367.83	45052368.03	45052368.24	0.0503	0.0335
Neptune	118642-09-11 11:58 G	45054413.96	45054414.00	45054414.08	0.0088	0.0086
Neptune	118644-08-05 23:43 G	45055108.19	45055108.49	45055108.80	0.0088	0.0023
Uranus	118653-02-27 18:55 G	45058235.97	45058236.29	45058236.60	0.0136	0.0002
Neptune	118726-07-16 22:31 G	45085037.13	45085037.44	45085037.76	0.0090	0.0005
Jupiter	118726-08-02 01:10 G	45085053.53	45085053.55	45085053.58	0.0527	0.0524
Uranus	118779-12-28 00:55 G	45104559.24	45104559.54	45104559.85	0.0142	0.0006
Jupiter	118791-05-01 17:15 G	45108701.95	45108702.22	45108702.50	0.0502	0.0025
Saturn	118805-08-26 23:15 G	45113933.39	45113933.47	45113933.55	0.0273	0.0261
Neptune	118808-03-21 13:53 G	45114870.80	45114871.08	45114871.40	0.0088	0.0023
Neptune	118810-02-14 02:07 G	45115565.59	45115565.59	45115565.62	0.0088	0.0088
Uranus	118820-07-17 23:43 G	45119372.30	45119372.49	45119372.72	0.0136	0.0101

Pluto	118828-02-24 04:31 G	45122149.57	45122149.69	45122149.91	0.0065	0.0055
Jupiter	118845-01-20 03:48 G	45128324.47	45128324.66	45128324.86	0.0525	0.0366
Neptune	118890-02-28 02:36 G	45144799.36	45144799.61	45144799.89	0.0090	0.0048
Neptune	118892-01-24 04:03 G	45145494.48	45145494.67	45145494.85	0.0090	0.0072
Saturn	118894-01-19 21:05 G	45146221.23	45146221.38	45146221.56	0.0273	0.0221
Uranus	118905-03-14 06:12 G	45150291.51	45150291.76	45150292.05	0.0136	0.0066
Pluto	118917-05-14 11:15 G	45154735.69	45154735.97	45154736.29	0.0079	0.0029
Jupiter	118945-07-27 06:41 G	45165036.64	45165036.78	45165036.93	0.0502	0.0428
Uranus	118947-05-17 02:36 G	45165695.44	45165695.61	45165695.80	0.0142	0.0114
Neptune	118971-11-05 06:55 G	45174633.62	45174633.79	45174634.01	0.0088	0.0068
Neptune	118973-09-29 17:15 G	45175327.97	45175328.22	45175328.52	0.0088	0.0043
Saturn	118982-06-16 20:51 G	45178510.13	45178510.37	45178510.64	0.0274	0.0121
Jupiter	118999-04-17 01:39 G	45184658.30	45184658.57	45184658.84	0.0525	0.0014

120TH MILLENNIUM CE

This is a list of transits of Mars in the 120th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Saturn	119026-07-14 08:22 G	45194607.71	45194607.85	45194608.04	0.0285	0.0239		
Uranus	119032-01-11 09:48 G	45196614.64	45196614.91	45196615.18	0.0142	0.0065		
Neptune	119055-09-09 09:34 G	45205256.60	45205256.90	45205257.22	0.0090	0.0022		
Jupiter	119064-01-16 21:48 G	45208308.21	45208308.41	45208308.61	0.0505	0.0346		
Saturn	119070-11-11 05:00 G	45210798.44	45210798.71	45210798.99	0.0274	0.0053		
Uranus	119072-08-01 08:22 G	45211427.56	45211427.85	45211428.16	0.0136	0.0041		

Pluto	119076-06-07 07:39 G	45212833.63	45212833.82	45212834.04	0.0065	0.0049
Saturn	119114-12-09 19:39 G	45226897.03	45226897.32	45226897.61	0.0285	0.0090
Neptune	119137-05-16 10:03 G	45235090.61	45235090.92	45235091.23	0.0088	0.0004
Jupiter	119153-07-13 03:19 G	45240992.45	45240992.64	45240992.85	0.0525	0.0357
Uranus	119157-03-28 09:19 G	45242346.78	45242346.89	45242347.06	0.0136	0.0122
Saturn	119159-04-08 10:31 G	45243087.67	45243087.94	45243088.22	0.0275	0.0066
Uranus	119199-05-31 11:58 G	45257750.73	45257751.00	45257751.28	0.0142	0.0058
Saturn	119203-05-05 13:10 G	45259185.74	45259186.05	45259186.35	0.0285	0.0008
Jupiter	119218-04-12 05:43 G	45264641.47	45264641.74	45264642.01	0.0505	0.0087
Neptune	119219-04-24 14:22 G	45265018.80	45265019.10	45265019.40	0.0090	0.0029
Saturn	119247-09-02 10:31 G	45275376.74	45275376.94	45275377.17	0.0274	0.0178
Uranus	119284-01-24 17:43 G	45288670.10	45288670.24	45288670.42	0.0142	0.0120
Saturn	119291-09-30 19:24 G	45291476.12	45291476.31	45291476.53	0.0285	0.0210
Neptune	119300-12-30 05:00 G	45294853.49	45294853.71	45294854.00	0.0088	0.0049
Neptune	119302-11-24 13:53 G	45295547.89	45295548.08	45295548.33	0.0088	0.0062
Uranus	119324-08-15 06:27 G	45303482.46	45303482.77	45303483.08	0.0136	0.0011
Jupiter	119372-07-06 23:29 G	45320975.23	45320975.48	45320975.72	0.0504	0.0220
Neptune	119382-12-07 17:43 G	45324781.13	45324781.24	45324781.42	0.0090	0.0080
Neptune	119384-11-01 23:15 G	45325476.22	45325476.47	45325476.78	0.0090	0.0043
Pluto	119412-01-17 05:43 G	45335412.47	45335412.74	45335413.06	0.0079	0.0031
Jupiter	119426-03-27 18:55 G	45340596.08	45340596.29	45340596.50	0.0523	0.0333
Uranus	119451-06-14 19:39 G	45349806.02	45349806.32	45349806.62	0.0142	0.0003
Neptune	119466-07-10 09:34 G	45355310.61	45355310.90	45355311.22	0.0088	0.0017
Uranus	119492-01-02 23:43 G	45364618.30	45364618.49	45364618.71	0.0136	0.0104
Jupiter	119526-10-02 12:41 G	45377309.01	45377309.03	45377309.06	0.0504	0.0501
Neptune	119548-06-18 06:41 G	45385238.47	45385238.78	45385239.11	0.0090	0.0007
Pluto	119571-02-09 07:38 G	45393509.52	45393509.82	45393510.14	0.0065	0.0014
Saturn	119571-02-26 21:48 G	45393527.38	45393527.41	45393527.46	0.0274	0.0271
Uranus	119576-08-29 04:02 G	45395537.40	45395537.67	45395537.96	0.0136	0.0061
Jupiter	119580-06-21 23:29 G	45396930.21	45396930.48	45396930.76	0.0523	0.0053

Uranus	119618-11-01 21:48 G	45410942.29	45410942.41	45410942.54	0.0142	0.0128
Neptune	119630-02-23 06:41 G	45415073.50	45415073.78	45415074.09	0.0088	0.0028
Neptune	119632-01-18 14:07 G	45415768.02	45415768.09	45415768.22	0.0088	0.0083
Jupiter	119645-03-23 10:31 G	45420580.71	45420580.94	45420581.18	0.0506	0.0246
Saturn	119659-07-24 01:53 G	45425816.36	45425816.58	45425816.82	0.0274	0.0158
Uranus	119703-06-29 00:26 G	45441861.25	45441861.52	45441861.82	0.0142	0.0046
Neptune	119712-02-01 11:58 G	45445000.77	45445001.00	45445001.27	0.0090	0.0057
Neptune	119713-12-27 19:10 G	45445696.11	45445696.30	45445696.54	0.0090	0.0067
Jupiter	119734-09-16 23:00 G	45453264.29	45453264.46	45453264.63	0.0523	0.0411
Uranus	119744-01-16 16:46 G	45456672.92	45456673.20	45456673.49	0.0136	0.0060
Saturn	119747-12-18 00:12 G	45458104.26	45458104.51	45458104.77	0.0274	0.0116
Neptune	119793-10-09 08:36 G	45474836.71	45474836.86	45474837.08	0.0088	0.0071
Neptune	119795-09-03 13:53 G	45475530.82	45475531.08	45475531.37	0.0088	0.0039
Jupiter	119799-06-19 02:07 G	45476915.33	45476915.59	45476915.85	0.0506	0.0158
Uranus	119828-09-11 17:43 G	45487592.05	45487592.24	45487592.47	0.0136	0.0102
Saturn	119836-05-13 22:46 G	45490393.17	45490393.45	45490393.74	0.0275	0.0018
Jupiter	119853-03-07 19:10 G	45496535.20	45496535.30	45496535.41	0.0521	0.0479
Uranus	119870-11-16 04:46 G	45502997.46	45502997.70	45502997.96	0.0142	0.0079
Neptune	119877-08-12 02:22 G	45505458.30	45505458.60	45505458.93	0.0090	0.0018
Pluto	119906-09-19 12:26 G	45516087.83	45516088.02	45516088.28	0.0079	0.0055
Saturn	119924-10-07 23:58 G	45522681.22	45522681.50	45522681.79	0.0274	0.0034
Jupiter	119953-09-14 01:24 G	45533249.49	45533249.56	45533249.65	0.0506	0.0483
Uranus	119955-07-13 06:41 G	45533916.57	45533916.78	45533917.01	0.0142	0.0096
Neptune	119959-04-20 15:19 G	45535293.84	45535294.14	45535294.45	0.0088	0.0004
Saturn	119968-10-31 07:10 G	45538775.57	45538775.80	45538776.05	0.0284	0.0172
Uranus	119996-01-30 05:29 G	45548727.43	45548727.73	45548728.06	0.0136	0.0020

121ST MILLENNIUM CE

This is a list of transits of Mars in the 121st millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Jupiter	120007-06-03 03:19	G	45552869.36	45552869.64	45552869.91	0.0520	0.0083	
Saturn	120013-03-04 01:10	G	45554970.32	45554970.55	45554970.81	0.0275	0.0142	
Neptune	120041-03-27 08:36	G	45565220.57	45565220.86	45565221.17	0.0090	0.0032	
Saturn	120057-03-26 17:58	G	45571063.98	45571064.25	45571064.54	0.0284	0.0095	
Jupiter	120072-03-04 16:02	G	45576520.97	45576521.17	45576521.39	0.0509	0.0315	
Saturn	120101-07-29 19:38	G	45587259.20	45587259.32	45587259.47	0.0275	0.0239	
Uranus	120122-11-30 08:50	G	45595052.59	45595052.87	45595053.17	0.0142	0.0032	
Neptune	120122-12-04 18:26	G	45595057.03	45595057.27	45595057.55	0.0088	0.0047	
Neptune	120124-10-28 22:46	G	45595751.27	45595751.45	45595751.69	0.0088	0.0064	
Saturn	120145-08-22 19:53	G	45603354.05	45603354.33	45603354.62	0.0284	0.0092	
Pluto	120154-12-31 09:19	G	45606771.67	45606771.89	45606772.15	0.0079	0.0052	
Jupiter	120161-08-27 16:46	G	45609202.95	45609203.20	45609203.46	0.0521	0.0220	
Neptune	120204-11-10 13:10	G	45624982.95	45624983.05	45624983.21	0.0090	0.0082	
Neptune	120206-10-07 00:26	G	45625678.26	45625678.52	45625678.82	0.0090	0.0044	
Uranus	120207-07-27 09:05	G	45625971.85	45625971.88	45625971.93	0.0142	0.0140	
Jupiter	120226-05-31 12:26	G	45632854.75	45632855.02	45632855.29	0.0508	0.0009	
Saturn	120234-01-17 17:14	G	45635643.02	45635643.22	45635643.45	0.0284	0.0197	
Uranus	120248-02-12 18:12	G	45640781.95	45640782.26	45640782.58	0.0136	0.0020	
Neptune	120288-06-14 02:22	G	45655514.30	45655514.60	45655514.90	0.0088	0.0020	
Pluto	120314-01-22 19:10	G	45664867.06	45664867.30	45664867.58	0.0065	0.0037	
Neptune	120370-05-22 06:41	G	45685440.46	45685440.78	45685441.11	0.0090	0.0006	
Uranus	120374-12-14 11:58	G	45687107.70	45687108.00	45687108.29	0.0142	0.0010	

Jupiter	120380-08-24 20:50 G	45689188.14	45689188.37	45689188.61	0.0508	0.0242
Uranus	120415-07-01 22:02 G	45701917.24	45701917.42	45701917.62	0.0137	0.0110
Saturn	120425-01-22 05:29 G	45705409.55	45705409.73	45705409.94	0.0275	0.0202
Jupiter	120434-05-12 17:00 G	45708807.03	45708807.21	45708807.39	0.0519	0.0391
Neptune	120452-01-29 07:10 G	45715277.53	45715277.80	45715278.11	0.0088	0.0023
Neptune	120453-12-23 10:31 G	45715971.94	45715971.94	45715971.95	0.0088	0.0088
Uranus	120500-02-25 01:24 G	45732836.29	45732836.56	45732836.87	0.0136	0.0056
Saturn	120513-06-19 15:34 G	45737698.87	45737699.15	45737699.43	0.0275	0.0072
Neptune	120534-01-04 09:34 G	45745202.68	45745202.90	45745203.19	0.0090	0.0056
Neptune	120535-11-30 22:31 G	45745898.27	45745898.44	45745898.67	0.0090	0.0071
Uranus	120542-05-03 15:05 G	45748243.97	45748244.13	45748244.30	0.0141	0.0118
Pluto	120562-05-04 04:17 G	45755549.38	45755549.68	45755550.01	0.0065	0.0011
Jupiter	120588-08-06 11:29 G	45765140.70	45765140.98	45765141.26	0.0519	0.0055
Saturn	120601-11-13 17:00 G	45769986.92	45769987.21	45769987.50	0.0275	0.0020
Neptune	120615-09-15 12:41 G	45775040.85	45775041.03	45775041.26	0.0088	0.0065
Neptune	120617-08-09 14:50 G	45775734.88	45775735.12	45775735.40	0.0088	0.0045
Uranus	120626-12-28 11:43 G	45779162.73	45779162.99	45779163.28	0.0142	0.0053
Jupiter	120653-05-12 08:07 G	45788794.58	45788794.84	45788795.10	0.0510	0.0132
Uranus	120667-07-15 06:41 G	45793971.52	45793971.78	45793972.07	0.0136	0.0073
Saturn	120690-04-09 17:00 G	45802275.94	45802276.21	45802276.49	0.0275	0.0086
Neptune	120699-07-16 03:48 G	45805660.35	45805660.66	45805660.98	0.0090	0.0022
Jupiter	120742-11-02 20:36 G	45821475.17	45821475.36	45821475.58	0.0519	0.0349
Uranus	120752-03-10 12:26 G	45824890.79	45824891.02	45824891.25	0.0136	0.0095
Saturn	120778-09-03 13:38 G	45834563.83	45834564.07	45834564.34	0.0275	0.0130
Neptune	120781-03-25 19:10 G	45835498.00	45835498.30	45835498.60	0.0088	0.0002
Uranus	120794-05-17 14:36 G	45840298.88	45840299.11	45840299.37	0.0141	0.0080
Jupiter	120807-08-07 09:19 G	45845128.65	45845128.89	45845129.14	0.0510	0.0200
Pluto	120810-08-14 05:14 G	45846231.41	45846231.72	45846232.04	0.0065	0.0001
Saturn	120822-09-24 00:55 G	45850655.34	45850655.54	45850655.74	0.0283	0.0208
Neptune	120863-02-28 06:26 G	45865422.46	45865422.77	45865423.08	0.0090	0.0029

Saturn	120867-01-28 10:31 G	45866852.80	45866852.94	45866853.11	0.0276	0.0232
Uranus	120879-01-10 12:26 G	45871217.81	45871218.02	45871218.26	0.0142	0.0092
Saturn	120911-02-18 04:31 G	45882943.44	45882943.69	45882943.94	0.0283	0.0151
Uranus	120919-07-28 15:48 G	45886025.85	45886026.16	45886026.48	0.0136	0.0034
Neptune	120944-11-09 02:36 G	45895261.37	45895261.61	45895261.90	0.0088	0.0041
Neptune	120946-10-04 01:53 G	45895955.41	45895955.58	45895955.78	0.0088	0.0069
Saturn	120999-07-15 20:22 G	45915233.06	45915233.35	45915233.65	0.0283	0.0011

122ND MILLENNIUM CE

This is a list of transits of Mars in the 122nd millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Uranus	121004-03-23 21:34 G	45916945.36	45916945.40	45916945.45	0.0136	0.0135		
Jupiter	121015-07-19 07:24 G	45921079.55	45921079.81	45921080.08	0.0517	0.0194		
Neptune	121026-10-14 05:00 G	45925184.59	45925184.71	45925184.87	0.0090	0.0081		
Neptune	121028-09-08 22:17 G	45925880.17	45925880.43	45925880.72	0.0090	0.0048		
Uranus	121046-05-31 16:17 G	45932353.90	45932354.18	45932354.47	0.0142	0.0038		
Pluto	121058-11-24 01:10 G	45936913.24	45936913.55	45936913.87	0.0065	0.0004		
Jupiter	121080-04-23 06:41 G	45944734.55	45944734.78	45944735.01	0.0512	0.0258		
Saturn	121087-12-10 14:07 G	45947521.82	45947522.09	45947522.37	0.0283	0.0104		
Neptune	121108-06-26 08:07 G	45955024.78	45955024.84	45955024.97	0.0088	0.0084		
Neptune	121110-05-21 07:38 G	45955718.55	45955718.82	45955719.12	0.0088	0.0026		
Uranus	121131-01-25 12:41 G	45963272.96	45963273.03	45963273.14	0.0142	0.0135		
Jupiter	121169-10-13 02:07 G	45977413.32	45977413.59	45977413.87	0.0516	0.0136		

Uranus	121171-08-11 04:17 G	45978080.37	45978080.68	45978081.01	0.0136	0.0012
Saturn	121190-07-23 15:19 G	45985002.08	45985002.14	45985002.24	0.0276	0.0267
Neptune	121192-04-23 22:17 G	45985642.10	45985642.43	45985642.76	0.0090	0.0004
Jupiter	121234-07-18 12:12 G	46001067.74	46001068.01	46001068.27	0.0512	0.0026
Neptune	121274-01-03 13:38 G	46015481.79	46015482.07	46015482.37	0.0088	0.0018
Saturn	121278-12-17 13:09 G	46017290.82	46017291.05	46017291.31	0.0276	0.0159
Uranus	121298-06-13 17:57 G	46024408.96	46024409.25	46024409.54	0.0142	0.0003
Pluto	121307-03-05 17:43 G	46027594.92	46027595.24	46027595.56	0.0065	0.0000
Jupiter	121324-01-07 10:02 G	46033746.76	46033746.92	46033747.08	0.0517	0.0422
Uranus	121338-12-28 09:33 G	46039215.75	46039215.90	46039216.09	0.0136	0.0116
Neptune	121355-12-07 18:55 G	46045404.07	46045404.29	46045404.57	0.0090	0.0058
Neptune	121357-11-02 12:55 G	46046099.88	46046100.04	46046100.27	0.0090	0.0073
Saturn	121367-05-15 05:57 G	46049580.46	46049580.75	46049581.05	0.0276	0.0009
Jupiter	121388-10-12 14:21 G	46057401.90	46057402.10	46057402.32	0.0512	0.0311
Uranus	121423-08-24 19:24 G	46070135.04	46070135.31	46070135.62	0.0136	0.0058
Neptune	121437-08-20 21:19 G	46075245.19	46075245.39	46075245.61	0.0088	0.0062
Neptune	121439-07-15 17:43 G	46075939.02	46075939.24	46075939.52	0.0088	0.0048
Jupiter	121442-06-27 11:00 G	46077016.90	46077016.96	46077017.03	0.0514	0.0500
Saturn	121455-10-09 12:26 G	46081868.74	46081869.02	46081869.31	0.0276	0.0061
Uranus	121465-11-02 01:09 G	46085545.43	46085545.55	46085545.68	0.0142	0.0127
Jupiter	121507-04-05 18:12 G	46100674.13	46100674.26	46100674.40	0.0515	0.0444
Neptune	121521-06-18 11:00 G	46105861.64	46105861.96	46105862.29	0.0090	0.0019
Saturn	121544-03-05 17:29 G	46114158.01	46114158.23	46114158.45	0.0276	0.0181
Uranus	121550-06-28 20:36 G	46116464.08	46116464.36	46116464.64	0.0142	0.0043
Pluto	121555-06-15 08:07 G	46118276.53	46118276.84	46118277.16	0.0065	0.0009
Uranus	121591-01-11 04:02 G	46131270.38	46131270.67	46131270.95	0.0136	0.0065
Jupiter	121596-09-21 17:57 G	46133350.98	46133351.25	46133351.54	0.0514	0.0112
Neptune	121603-03-01 01:09 G	46135702.25	46135702.55	46135702.85	0.0088	0.0003
Saturn	121632-07-29 13:09 G	46146445.88	46146446.05	46146446.22	0.0276	0.0223
Jupiter	121661-06-29 20:21 G	46157008.10	46157008.35	46157008.61	0.0515	0.0118

Uranus	121675-09-06 15:48 G	46162189.99	46162190.16	46162190.36	0.0136	0.0112
Saturn	121676-08-17 17:14 G	46162536.03	46162536.22	46162536.42	0.0282	0.0209
Neptune	121685-01-30 04:02 G	46165623.39	46165623.67	46165624.00	0.0090	0.0037
Uranus	121717-11-16 05:43 G	46177600.51	46177600.74	46177600.98	0.0142	0.0083
Jupiter	121750-12-18 05:14 G	46189685.49	46189685.72	46189685.96	0.0515	0.0291
Saturn	121765-01-11 16:31 G	46194823.96	46194824.19	46194824.42	0.0282	0.0168
Neptune	121766-10-15 08:21 G	46195465.60	46195465.85	46195466.12	0.0088	0.0042
Neptune	121768-09-08 04:31 G	46196159.53	46196159.69	46196159.91	0.0088	0.0068
Uranus	121802-07-13 04:02 G	46208519.46	46208519.67	46208519.90	0.0142	0.0091
Pluto	121803-09-24 20:50 G	46208958.08	46208958.37	46208958.69	0.0065	0.0021
Jupiter	121815-09-26 07:09 G	46213342.57	46213342.80	46213343.03	0.0514	0.0248
Uranus	121843-01-25 05:00 G	46223325.38	46223325.71	46223326.03	0.0136	0.0007
Neptune	121850-08-11 17:29 G	46226080.96	46226081.23	46226081.56	0.0090	0.0040
Saturn	121853-06-08 22:31 G	46227113.16	46227113.44	46227113.73	0.0281	0.0034
Neptune	121930-06-01 15:48 G	46255229.16	46255229.16	46255229.21	0.0088	0.0088
Neptune	121932-04-25 09:48 G	46255922.63	46255922.91	46255923.21	0.0088	0.0022
Saturn	121941-11-03 11:00 G	46259401.67	46259401.96	46259402.25	0.0281	0.0042
Uranus	121969-11-30 15:19 G	46269655.87	46269656.14	46269656.43	0.0142	0.0038
Jupiter	121969-12-20 19:53 G	46269676.30	46269676.33	46269676.39	0.0514	0.0506

123RD MILLENNIUM CE

This is a list of transits of Mars in the 123rd millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								

Uranus	122010-06-13 16:17 G	46284461.08	46284461.18	46284461.33	0.0136	0.0126
Neptune	122014-03-26 08:36 G	46285842.55	46285842.86	46285843.20	0.0090	0.0019
Jupiter	122023-09-02 09:19 G	46289289.65	46289289.89	46289290.14	0.0512	0.0261
Saturn	122030-03-31 10:02 G	46291691.77	46291691.92	46291692.12	0.0281	0.0224
Saturn	122044-06-16 03:19 G	46296882.54	46296882.64	46296882.78	0.0278	0.0254
Pluto	122052-01-03 07:09 G	46299639.56	46299639.80	46299640.07	0.0065	0.0040
Uranus	122054-07-26 11:00 G	46300574.90	46300574.96	46300575.07	0.0142	0.0135
Jupiter	122088-06-10 14:21 G	46312947.90	46312948.10	46312948.31	0.0517	0.0309
Uranus	122095-02-07 10:17 G	46315380.64	46315380.93	46315381.23	0.0136	0.0057
Neptune	122095-12-09 18:12 G	46315685.99	46315686.26	46315686.56	0.0088	0.0025
Neptune	122097-11-02 11:43 G	46316379.96	46316379.99	46316380.09	0.0088	0.0086
Saturn	122132-11-11 02:50 G	46329171.37	46329171.62	46329171.89	0.0278	0.0139
Neptune	122177-11-07 17:43 G	46345604.12	46345604.24	46345604.44	0.0090	0.0079
Jupiter	122177-11-26 16:31 G	46345622.90	46345623.19	46345623.48	0.0513	0.0020
Neptune	122179-10-04 19:09 G	46346300.04	46346300.30	46346300.57	0.0090	0.0055
Saturn	122221-04-08 23:57 G	46361461.20	46361461.50	46361461.80	0.0278	0.0023
Uranus	122221-12-15 00:26 G	46361711.24	46361711.52	46361711.81	0.0142	0.0012
Jupiter	122242-09-06 13:53 G	46369281.82	46369282.08	46369282.34	0.0516	0.0007
Neptune	122259-07-27 00:55 G	46375449.37	46375449.54	46375449.72	0.0088	0.0070
Neptune	122261-06-19 18:41 G	46376143.03	46376143.28	46376143.56	0.0088	0.0039
Uranus	122262-06-28 01:09 G	46376516.26	46376516.55	46376516.85	0.0136	0.0056
Pluto	122300-04-14 14:21 G	46390321.02	46390321.10	46390321.23	0.0065	0.0062
Saturn	122309-09-03 12:41 G	46393749.77	46393750.03	46393750.31	0.0277	0.0112
Jupiter	122332-02-22 05:43 G	46401956.52	46401956.74	46401956.96	0.0512	0.0327
Neptune	122343-05-20 04:45 G	46406061.37	46406061.70	46406062.04	0.0090	0.0005
Uranus	122347-02-22 19:38 G	46407436.24	46407436.32	46407436.45	0.0136	0.0129
Uranus	122389-05-04 16:02 G	46422848.01	46422848.17	46422848.37	0.0142	0.0110
Jupiter	122396-12-01 07:24 G	46425615.59	46425615.81	46425616.02	0.0517	0.0293
Saturn	122398-01-29 01:09 G	46426039.44	46426039.55	46426039.68	0.0278	0.0253
Neptune	122425-02-03 00:12 G	46435906.22	46435906.51	46435906.81	0.0088	0.0008

Saturn	122442-02-16 22:17 G	46442129.33	46442129.43	46442129.56	0.0281	0.0257
Uranus	122473-12-28 15:05 G	46453766.89	46453767.13	46453767.40	0.0142	0.0066
Neptune	122507-01-01 11:57 G	46465822.78	46465823.00	46465823.23	0.0090	0.0066
Neptune	122508-11-27 12:41 G	46466518.85	46466519.03	46466519.28	0.0090	0.0069
Uranus	122514-07-12 10:02 G	46468571.60	46468571.92	46468572.26	0.0136	0.0014
Jupiter	122515-05-24 15:05 G	46468888.02	46468888.13	46468888.25	0.0519	0.0462
Saturn	122530-07-14 08:07 G	46474417.64	46474417.84	46474418.07	0.0280	0.0182
Neptune	122588-09-19 06:55 G	46495669.59	46495669.79	46495670.04	0.0088	0.0056
Neptune	122590-08-13 23:29 G	46496363.25	46496363.48	46496363.72	0.0088	0.0054
Jupiter	122604-11-06 20:21 G	46501561.08	46501561.35	46501561.63	0.0510	0.0151
Saturn	122618-12-08 05:57 G	46506705.52	46506705.75	46506706.01	0.0280	0.0147
Uranus	122641-05-19 07:09 G	46514903.55	46514903.80	46514904.08	0.0141	0.0058
Jupiter	122669-08-19 04:02 G	46525222.41	46525222.67	46525222.93	0.0518	0.0086
Neptune	122672-07-11 21:19 G	46526280.07	46526280.39	46526280.73	0.0090	0.0008
Uranus	122681-11-28 21:19 G	46529707.20	46529707.39	46529707.63	0.0137	0.0104
Saturn	122707-05-05 04:02 G	46538994.39	46538994.67	46538994.96	0.0280	0.0034
Uranus	122726-01-13 02:21 G	46545822.44	46545822.60	46545822.76	0.0142	0.0117
Neptune	122754-03-31 05:14 G	46556126.42	46556126.72	46556127.01	0.0088	0.0006
Jupiter	122759-02-02 04:45 G	46557895.45	46557895.70	46557895.96	0.0510	0.0235
Uranus	122766-07-26 17:14 G	46560626.98	46560627.22	46560627.50	0.0137	0.0084
Saturn	122795-09-28 09:48 G	46571282.63	46571282.91	46571283.20	0.0280	0.0024
Jupiter	122823-11-13 21:05 G	46581556.14	46581556.38	46581556.62	0.0519	0.0188
Neptune	122836-02-24 02:21 G	46586041.37	46586041.60	46586041.90	0.0090	0.0055
Neptune	122838-01-20 06:12 G	46586737.63	46586737.76	46586737.91	0.0090	0.0081
Saturn	122884-02-23 02:07 G	46603572.39	46603572.59	46603572.81	0.0279	0.0185
Uranus	122893-06-01 22:02 G	46606959.14	46606959.42	46606959.71	0.0141	0.0003
Saturn	122898-05-09 21:19 G	46608762.28	46608762.39	46608762.53	0.0279	0.0255
Neptune	122917-11-14 11:57 G	46615889.75	46615890.00	46615890.27	0.0088	0.0042
Neptune	122919-10-09 03:33 G	46616583.49	46616583.65	46616583.86	0.0088	0.0068
Uranus	122933-12-13 03:33 G	46621762.34	46621762.65	46621762.98	0.0137	0.0035

Saturn	122972-07-19 20:36 G	46635861.34	46635861.36	46635861.39	0.0280	0.0278
Jupiter	122978-02-07 19:09 G	46637890.24	46637890.30	46637890.38	0.0518	0.0497
Saturn	122986-10-04 17:43 G	46641050.99	46641051.24	46641051.50	0.0279	0.0143

124TH MILLENNIUM CE

This is a list of transits of Mars in the 124th millennium CE.

FROM	MAX- TRANSIT TIME	C	START	MAX	END	SUNRAD	DEPTH	S
Neptune	123001-09-04 13:09 G	46646498.74	46646499.05	46646499.39	0.0090	0.0021		
Jupiter	123031-10-17 12:26 G	46657498.82	46657499.02	46657499.23	0.0508	0.0366		
Pluto	123047-01-03 02:50 G	46663055.43	46663055.62	46663055.87	0.0066	0.0048		
Uranus	123060-10-21 18:55 G	46668096.16	46668096.29	46668096.47	0.0141	0.0118		
Saturn	123075-03-02 14:50 G	46673340.82	46673341.12	46673341.42	0.0279	0.0024		
Neptune	123083-05-25 09:05 G	46676346.60	46676346.88	46676347.17	0.0088	0.0019		
Jupiter	123096-07-30 17:00 G	46681162.01	46681162.21	46681162.42	0.0521	0.0313		
Pluto	123134-05-05 10:02 G	46694953.63	46694953.92	46694954.24	0.0078	0.0018		
Uranus	123145-06-17 15:05 G	46699014.86	46699015.13	46699015.39	0.0141	0.0056		
Saturn	123163-07-28 08:36 G	46705629.60	46705629.86	46705630.14	0.0279	0.0129		
Neptune	123165-04-18 21:33 G	46706260.10	46706260.40	46706260.70	0.0090	0.0040		
Uranus	123185-12-27 05:57 G	46713817.44	46713817.75	46713818.08	0.0137	0.0030		
Jupiter	123186-01-10 20:50 G	46713832.08	46713832.37	46713832.66	0.0508	0.0077		
Neptune	123247-01-08 17:43 G	46736109.97	46736110.24	46736110.52	0.0088	0.0029		
Neptune	123248-12-02 08:07 G	46736803.74	46736803.84	46736803.95	0.0088	0.0081		
Jupiter	123250-10-25 05:00 G	46737495.45	46737495.71	46737495.96	0.0521	0.0059		

Pluto	123295-04-12 22:02 G	46753736.11	46753736.42	46753736.75	0.0066	0.0005
Saturn	123296-01-12 23:14 G	46754011.31	46754011.47	46754011.66	0.0280	0.0220
Uranus	123312-11-05 10:45 G	46760151.70	46760151.95	46760152.22	0.0141	0.0062
Neptune	123330-10-28 10:45 G	46766717.64	46766717.95	46766718.26	0.0090	0.0036
Jupiter	123340-04-06 23:14 G	46770166.23	46770166.47	46770166.72	0.0509	0.0285
Uranus	123353-05-15 07:38 G	46774952.62	46774952.82	46774953.08	0.0137	0.0099
Pluto	123382-08-13 07:38 G	46785634.56	46785634.82	46785635.10	0.0078	0.0039
Saturn	123384-06-08 12:12 G	46786299.77	46786300.01	46786300.26	0.0279	0.0138
Uranus	123397-07-01 06:26 G	46791070.60	46791070.77	46791070.94	0.0141	0.0113
Jupiter	123405-01-20 11:57 G	46793829.79	46793830.00	46793830.22	0.0520	0.0286
Neptune	123410-08-26 02:21 G	46795873.49	46795873.60	46795873.77	0.0088	0.0077
Neptune	123412-07-19 17:00 G	46796566.95	46796567.21	46796567.49	0.0088	0.0033
Uranus	123438-01-10 02:07 G	46805872.36	46805872.59	46805872.87	0.0137	0.0089
Saturn	123472-11-02 13:09 G	46818587.79	46818588.05	46818588.32	0.0279	0.0098
Neptune	123494-06-11 19:24 G	46826479.00	46826479.31	46826479.65	0.0090	0.0024
Jupiter	123523-07-14 01:38 G	46837102.45	46837102.57	46837102.69	0.0523	0.0458
Pluto	123543-07-23 09:48 G	46844416.74	46844416.91	46844417.17	0.0066	0.0049
Saturn	123561-03-30 06:26 G	46850876.49	46850876.77	46850877.06	0.0278	0.0003
Uranus	123564-11-20 03:48 G	46852207.38	46852207.66	46852207.95	0.0141	0.0008
Neptune	123576-03-05 02:07 G	46856330.31	46856330.59	46856330.88	0.0088	0.0014
Uranus	123605-05-28 23:43 G	46867007.19	46867007.49	46867007.81	0.0137	0.0047
Jupiter	123612-12-21 11:43 G	46869770.72	46869770.99	46869771.26	0.0506	0.0189
Saturn	123649-08-23 07:38 G	46883164.55	46883164.82	46883165.11	0.0278	0.0043
Neptune	123658-01-24 04:31 G	46886240.59	46886240.69	46886240.83	0.0090	0.0084
Neptune	123659-12-21 12:12 G	46886936.76	46886937.01	46886937.29	0.0090	0.0055
Jupiter	123677-10-06 23:43 G	46893436.25	46893436.49	46893436.73	0.0523	0.0168
Uranus	123732-04-09 23:00 G	46913344.38	46913344.46	46913344.58	0.0141	0.0131
Saturn	123738-01-18 17:14 G	46915454.02	46915454.22	46915454.44	0.0278	0.0183
Neptune	123739-10-20 14:36 G	46916093.92	46916094.11	46916094.33	0.0088	0.0061
Neptune	123741-09-13 03:05 G	46916787.42	46916787.63	46916787.90	0.0088	0.0050

Saturn	123752-04-02 02:50	G	46920641.52	46920641.62	46920641.75	0.0281	0.0261
Jupiter	123767-03-18 15:05	G	46926104.86	46926105.13	46926105.41	0.0506	0.0173
Uranus	123816-12-04 15:05	G	46944262.86	46944263.13	46944263.41	0.0141	0.0038
Neptune	123823-08-05 23:57	G	46946698.16	46946698.50	46946698.84	0.0090	0.0004
Saturn	123826-06-15 06:41	G	46947742.69	46947742.78	46947742.88	0.0278	0.0260
Jupiter	123832-01-03 04:02	G	46949770.43	46949770.67	46949770.92	0.0522	0.0161
Saturn	123840-08-27 17:43	G	46952930.00	46952930.24	46952930.50	0.0281	0.0160
Uranus	123857-06-11 12:41	G	46959061.69	46959062.03	46959062.36	0.0137	0.0002
Neptune	123905-04-30 16:02	G	46976550.88	46976551.17	46976551.46	0.0088	0.0002
Jupiter	123921-06-13 02:50	G	46982438.52	46982438.62	46982438.74	0.0506	0.0467
Saturn	123929-01-23 11:00	G	46985219.65	46985219.96	46985220.26	0.0281	0.0002
Uranus	123984-04-24 10:45	G	47005399.74	47005399.95	47005400.20	0.0141	0.0083
Jupiter	123986-03-29 12:12	G	47006103.85	47006104.01	47006104.19	0.0523	0.0392
Neptune	123987-03-20 10:17	G	47006459.69	47006459.93	47006460.17	0.0090	0.0063
Neptune	123989-02-13 18:41	G	47007156.14	47007156.28	47007156.49	0.0090	0.0077

125TH MILLENNIUM CE

This is a list of transits of Mars in the 125th millennium CE.

FROM	MAX-	C	START	MAX	END	SUNRAD	DEPTH	S
TRANSIT								
TIME								
Saturn	124017-06-19 07:24	G	47017508.54	47017508.81	47017509.10	0.0281	0.0111	
Jupiter	124039-11-30 11:57	G	47025707.88	47025708.00	47025708.14	0.0504	0.0449	
Neptune	124068-12-14 06:12	G	47036314.54	47036314.76	47036315.04	0.0088	0.0044	
Uranus	124068-12-18 04:02	G	47036318.47	47036318.67	47036318.91	0.0141	0.0088	

Neptune 124070-11-07 19:09 G 47037008.13 47037008.30 47037008.50 0.0088 0.0067
 Jupiter 124104-09-18 12:26 G 47049375.88 47049376.02 47049376.18 0.0525 0.0423
 Uranus 124109-06-24 18:41 G 47051115.98 47051116.28 47051116.61 0.0137 0.0042
 Saturn 124149-12-09 12:41 G 47065893.83 47065894.03 47065894.26 0.0278 0.0180
 Neptune 124152-09-28 06:12 G 47066917.44 47066917.76 47066918.11 0.0090 0.0019
 Jupiter 124194-02-24 08:07 G 47082041.55 47082041.84 47082042.13 0.0504 0.0118
 Neptune 124234-06-25 08:36 G 47096771.58 47096771.86 47096772.15 0.0088 0.0021
 Uranus 124236-05-08 22:02 G 47097455.15 47097455.42 47097455.70 0.0140 0.0040
 Saturn 124238-05-06 06:12 G 47098182.50 47098182.76 47098183.03 0.0277 0.0087
 Jupiter 124258-12-14 15:19 G 47105709.89 47105710.14 47105710.39 0.0524 0.0102
 Uranus 124276-11-10 06:26 G 47112250.57 47112250.77 47112251.00 0.0137 0.0105
 Pluto 124290-04-11 01:09 G 47117150.26 47117150.55 47117150.87 0.0066 0.0023
 Neptune 124316-05-13 17:43 G 47126678.96 47126679.24 47126679.57 0.0090 0.0040
 Uranus 124321-01-02 11:00 G 47128373.87 47128373.96 47128374.11 0.0141 0.0128
 Saturn 124326-09-30 12:55 G 47130470.76 47130471.04 47130471.32 0.0278 0.0033
 Jupiter 124348-05-22 08:07 G 47138375.58 47138375.84 47138376.10 0.0504 0.0226
 Uranus 124361-07-08 00:12 G 47143170.27 47143170.51 47143170.80 0.0137 0.0082
 Pluto 124377-08-12 23:29 G 47149050.20 47149050.48 47149050.78 0.0077 0.0024
 Neptune 124398-02-08 23:14 G 47156535.21 47156535.47 47156535.77 0.0088 0.0025
 Neptune 124400-01-03 11:00 G 47157228.94 47157228.96 47157229.04 0.0088 0.0087
 Jupiter 124413-03-10 16:17 G 47162043.95 47162044.18 47162044.42 0.0525 0.0206
 Saturn 124415-02-24 05:29 G 47162759.45 47162759.73 47162760.00 0.0277 0.0060
 Neptune 124481-11-21 15:05 G 47187136.85 47187137.13 47187137.45 0.0090 0.0043
 Uranus 124488-05-22 04:17 G 47189510.40 47189510.68 47189510.97 0.0141 0.0002
 Saturn 124503-07-21 03:19 G 47195047.39 47195047.64 47195047.91 0.0277 0.0094
 Uranus 124528-11-23 10:02 G 47204304.63 47204304.92 47204305.22 0.0138 0.0065
 Pluto 124538-07-20 10:45 G 47207830.70 47207830.95 47207831.26 0.0066 0.0033
 Neptune 124561-09-25 15:33 G 47216299.01 47216299.15 47216299.36 0.0088 0.0070
 Neptune 124563-08-20 03:05 G 47216992.39 47216992.63 47216992.90 0.0088 0.0041
 Saturn 124591-12-15 05:43 G 47227336.56 47227336.74 47227336.92 0.0276 0.0214

Saturn	124606-02-23 20:21 G	47232520.27	47232520.35	47232520.44	0.0282	0.0271
Uranus	124613-07-21 01:52 G	47235224.43	47235224.58	47235224.76	0.0137	0.0120
Jupiter	124621-02-04 19:09 G	47237980.03	47237980.30	47237980.57	0.0502	0.0226
Pluto	124625-11-21 11:14 G	47239730.77	47239730.97	47239731.21	0.0077	0.0054
Neptune	124645-07-07 01:38 G	47246898.24	47246898.57	47246898.91	0.0090	0.0016
Uranus	124655-10-11 22:45 G	47250647.34	47250647.45	47250647.60	0.0140	0.0125
Saturn	124680-05-10 11:43 G	47259624.95	47259624.99	47259625.04	0.0277	0.0273
Jupiter	124685-11-26 12:12 G	47261650.78	47261651.01	47261651.24	0.0526	0.0214
Saturn	124694-07-20 02:36 G	47264808.40	47264808.61	47264808.86	0.0283	0.0187
Neptune	124727-04-06 18:26 G	47276755.98	47276756.27	47276756.56	0.0088	0.0004
Uranus	124740-06-06 11:14 G	47281565.70	47281565.97	47281566.24	0.0141	0.0039
Jupiter	124775-05-02 13:24 G	47294313.77	47294314.06	47294314.36	0.0502	0.0096
Uranus	124780-12-06 10:02 G	47296358.61	47296358.92	47296359.26	0.0137	0.0031
Saturn	124782-12-15 10:31 G	47297097.64	47297097.94	47297098.25	0.0283	0.0048
Neptune	124809-02-18 11:00 G	47306659.78	47306659.96	47306660.15	0.0090	0.0075
Neptune	124811-01-15 23:43 G	47307356.26	47307356.49	47307356.72	0.0090	0.0067
Jupiter	124840-02-20 22:16 G	47317984.17	47317984.43	47317984.68	0.0527	0.0027
Saturn	124871-05-11 03:48 G	47329386.36	47329386.66	47329386.97	0.0282	0.0061
Neptune	124890-11-20 11:28 G	47336519.75	47336519.98	47336520.23	0.0088	0.0049
Neptune	124892-10-13 22:02 G	47337213.22	47337213.42	47337213.63	0.0088	0.0062
Uranus	124907-10-26 01:52 G	47342702.38	47342702.58	47342702.81	0.0140	0.0093
Saturn	124915-06-10 20:50 G	47345487.31	47345487.37	47345487.44	0.0276	0.0267
Jupiter	124929-07-27 07:09 G	47350647.64	47350647.80	47350647.97	0.0503	0.0418
Saturn	124959-10-07 07:38 G	47361676.69	47361676.82	47361676.97	0.0283	0.0251
Neptune	124974-08-30 09:33 G	47367117.57	47367117.90	47367118.25	0.0090	0.0009
Uranus	124992-06-19 12:26 G	47373620.79	47373621.02	47373621.28	0.0141	0.0074
Jupiter	124994-05-17 12:26 G	47374317.81	47374318.02	47374318.24	0.0526	0.0284